

# CANADIAN INDUSTRY IN 1871

Ontario County Series #19

## NORFOLK COUNTY INDUSTRIES, 1871 INDEX TO MANUSCRIPT CENSUS

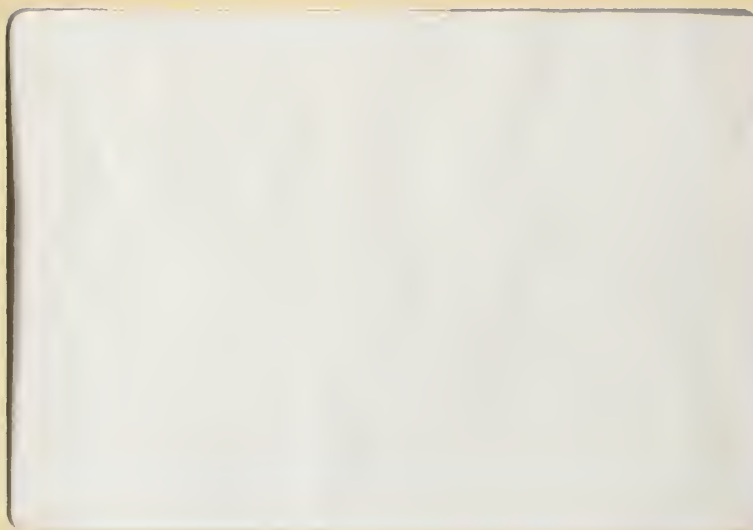
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**Cover Illustration** (selected and described by G.T. Bloomfield)

The view of Whitevale, Township of Pickering, was chosen to illustrate Canadian industry in 1871. At this time, a high proportion of manufacturing activity was still located in small settlements, some of which were growing rapidly into towns. **Lovell's Directory** (1871) described Whitevale as:

A thriving village...[with] extensive flouring and woollen mills... Montreal Telegraph Co has an office here. Distant from Whitby, the county town, and a station of the Grand Trunk Railway, 13 miles. Mail daily. Population about 250.

Truman P. White has acquired the water rights at Majorville on Duffin's Creek in 1845 and developed a grist mill, a saw mill and, later, a woollen mill. By 1871 the census enumerated six significant industrial establishments employing 66 workers and with a total value of production amounting to \$125,000. The transition from waterwheels (70 horsepower) to steam engines (66 horsepower) was already apparent in the village by this date. In common with its counterparts across the country, Whitevale's basic industrial activities were closely associated with the local agricultural area. There was also considerable economic integration apparent in the ownership of several establishments by Truman P. White and in the making of staves in the sawmill for the cooper shop which in turn supplied the flour mill with basic containers for transporting the flour to market.

Unlike many of its contemporaries, Whitevale has remained about the same size ever since 1871. The 1971 census recorded a population of only 273 in the unincorporated settlement. Whitevale never achieved connection by railway, county road or provincial highway. Much of the surrounding land was acquired for the planned Pickering airport and new town in 1972/3 and today the settlement is threatened by the creation of a municipal solid waste dump for Metropolitan Toronto and the Durham Region.

The illustration was first published in the **Illustrated Historical Atlas of the County of Ontario** (Toronto: J.H. Bees and Co., 1877), reprinted Ross Cumming, 1972).

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**CANADIAN INDUSTRY IN 1871 (CANIND71) PROJECT**

Ontario County Series #19

**NORFOLK COUNTY INDUSTRIES, 1871  
INDEX TO MANUSCRIPT CENSUS**

G.T. Bloomfield & Elizabeth Bloomfield

G.T. Bloomfield, series editor

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## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

The first Census of Canada was taken at a time when the "hum of industry" was believed to be an essential sign of a community's progress, usually associated with the benefits of railway connections. Many people at this time seem to have shared Thomas Keefer's vision of "the civilizing tendency of the locomotive":

A town has been built and peopled by the operatives -- land rises rapidly in value -- the neglected swamp is cleared and the timber is converted into all sorts of wooden "notions" -- tons of vegetables, grains or grasses are grown where none grew before -- the patient click of the loom, the busy hum of the spindle, the thundering of the trip-hammer and the roaring of steam, are mingled in one continuous sound of active industry.<sup>1</sup>

The CANIND71 database created from the manuscript census schedules of industrial establishments is used in this series to provide snapshots of industrial activity in Ontario just after Confederation, at a time of transition in technology, business organization and work discipline. The 36 Ontario counties varied in the amount and intensity of "active industry", depending on how long they had been settled, how much of their population lived in cities and towns, and how well connected they were by rail or water transport.

One title in the CANIND71 series of research reports has already examined the mix of industrial activity in Wellington County, Ontario, as a model for what might be done for any other place of similar size and population in Ontario, Quebec, New Brunswick or Nova Scotia.<sup>2</sup>

The reports in the Ontario County Series have less detailed description and analysis than the study of Wellington County and more tabulations of data compiled out of the CANIND71 database. The reports follow a similar format. First, features of the CANIND71 database, especially its geographical organization and industrial classification, are explained so that readers can understand tables for particular counties. Each county is defined and factors in its history, location and resources that influenced the amount and character of industry by 1870-1 are noted. Then the structure and characteristics of industry in that county are summarized under the headings of location and distribution, industry types, size structure of industrial units, use of water and steam power, workplace types, and leading firms. The appendices present aggregate data grouped by geographical location, industry classifications and specific industry types. Summary data for individual establishments are then listed for the whole county, alphabetically by the proprietor's name, with additional lists for establishments in each city, town or village.

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<sup>1</sup> T.C. Keefer, Philosophy of Railroads (1850), edited with an introduction by H.V. Nelles (Toronto: University of Toronto Press, 1972), p. 9.

<sup>2</sup> Elizabeth Bloomfield and G.T. Bloomfield, The Hum of Industry: Millers, Manufacturers and Artisans of Wellington County CANIND71 Research Report 9 (Guelph: University of Guelph, Department of Geography, 1989).

## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

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- 0-88955-265-7 Middlesex County Industries, 1871: Index to Manuscript Census (#18 in series)
- 0-88955-266-5 Norfolk County Industries, 1871: Index to Manuscript Census (#19 in series)
- 0-88955-267-3 Northumberland & Durham County Industries, 1871: Index to Manuscript Census  
(#20 in series)
- 0-88955-268-1 Ontario County Industries, 1871: Index to Manuscript Census (#21 in series)
- 0-88955-269-X Oxford County Industries, 1871: Index to Manuscript Census (#22 in series)
- 0-88955-270-3 Peel County Industries, 1871: Index to Manuscript Census (#23 in series)
- 0-88955-271-1 Perth County Industries, 1871: Index to Manuscript Census (#24 in series)
- 0-88955-272-X Peterborough County Industries, 1871: Index to Manuscript Census (#25 in series)
- 0-88955-273-8 Prescott & Russell County Industries, 1871: Index to Manuscript Census  
(#26 in series)
- 0-88955-274-6 Prince Edward County Industries, 1871: Index to Manuscript Census  
(#27 in series)
- 0-88955-275-4 Renfrew County Industries, 1871: Index to Manuscript Census (#28 in series)
- 0-88955-276-2 Simcoe County Industries, 1871: Index to Manuscript Census (#29 in series)
- 0-88955-277-0 Stormont, Dundas & Glengarry County Industries, 1871: Index to Manuscript  
Census (#30 in series)
- 0-88955-278-9 Victoria County Industries, 1871: Index to Manuscript Census (#31 in series)
- 0-88955-279-7 Waterloo County Industries, 1871: Index to Manuscript Census (#32 in series)
- 0-88955-280-0 Welland County Industries, 1871: Index to Manuscript Census (#33 in series)
- 0-88955-281-9 Wentworth County Industries, 1871: Index to Manuscript Census (#34 in series)
- 0-88955-282-7 York County Industries, 1871: Index to Manuscript Census (#35 in series)
- 0-88955-283-5 Northern Districts Industries, 1871: Index to Manuscript Census (#36 in series)



## INTRODUCTION TO THE CANIND71 DATABASE

The CANIND71 database is a machine-readable version of the original manuscript information for more than 45,000 industrial establishments counted in the first Census of Canada in 1871. This new source provides a wealth of information for the four provinces enumerated in 1871 -- New Brunswick, Nova Scotia, Ontario and Quebec. The 1871 census was the first to be taken on a consistent basis for the four provinces. Although similar information was collected in the Canadian censuses of 1881, 1891, 1901 and 1911, the manuscript schedules for industry have not survived. The 1871 census manuscripts are thus the only systematic source for industrial activity that survives in such detail from the nineteenth century. Moreover, the 1871 schedules contain a great deal of information that was never published at the time.

In using the CANIND71 data, we should understand the definitions and procedures used by the 1871 census enumerators:<sup>3</sup>

- \* Industrial businesses found by the census enumerators as they made their rounds in early April 1871 were included, and details were recorded of their operations during the preceding twelve months.

- \* An industrial establishment was defined as "a place where one or several people are employed in manufacturing, altering, making up or changing from one shape into another, materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out" (p. 138). No minimum value of output was set, in contrast to the United States censuses in the same period, for which only establishments with at least \$500 worth were included.

- \* All repairs, mending or custom work were understood to be industrial products. Thus the definition of industrial activity was considerably broader than it would be in the twentieth century.

- \* Numbers of workers or "employés" were defined to be the average number of persons actually working in the industrial establishment during the 12-month reporting period, and could consist entirely of members of the proprietor's family. The industrial workforce was subdivided by age and gender into men, women, boys (males under 16 years) and girls (females under 16 years), but the amount of wages paid to each age-gender group of worker was not separately stated.

- \* Industrial establishments were recorded in the geographical units -- District, Sub-District or Division -- in which they were found "and nowhere else. The principle is essential in every case. The production is attached to the locality" (p. 139).

- \* In reporting custom work such as tailoring or work done on toll such as that of some grist mills or carding mills, enumerators were told to state the real value of raw materials, even if these amounts did not pass through the accounts of the proprietor.

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<sup>3</sup> "Manual Containing the Census Act and Instructions to Officers Employed in Taking of the First Census of Canada, 1871," Canada Sessional Papers No. 64 (1871). Quotations are from this source.

\* Though enumerators could specify the types, quantities and values of individual raw materials and products for each establishment, it was foreseen that in most cases only the aggregate dollar values of raw materials and products would be stated.

\* Values of fixed capital and floating capital invested in the industrial business were distinguished rather than merged, and the number of working months was specified.

Only a very limited amount of the information collected in Schedule 6 of the 1871 census was published in the official census volumes of the 1870s.<sup>4</sup> The statistical tables published at the time used various industrial types that were defined pragmatically rather than systematically, and then listed in alphabetical order. For each industry type, whether as specialized as whip making or as ubiquitous as blacksmithing, figures were published for numbers of establishments, hands employed, yearly wages, value of raw materials and value of products in each of 206 Census Districts.

No industrial data at all were published for smaller areal units such as the Census Sub-Districts, either as summaries of total industrial activity or for specific types of industry. Thus the only 1871 industrial information published for urban centres was for the six cities, the boundaries of which exactly coincided with those of one or more Census Districts. These were Montreal, Toronto, Hamilton, Ottawa, London and Kingston. Some information collected by the enumerators was never compiled into published tables, notably for types and horse-power units of inanimate power, months of operation during the reporting period, and "floating" capital distinguished from "fixed" capital. The published totals also understated the real extent and value of industrial activity as these can now be reconstituted from the manuscript census schedules.<sup>5</sup>

### Database Variables

The CANIND71 database has made machine-readable information about all the industrial firms counted in Canada's first national census. For each establishment, there are up to 125 variables. The firms were located in 206 Census Districts and over 1600 Census Sub-Districts in Ontario, Quebec, New Brunswick and Nova Scotia. All details recorded by the enumerators on the manuscript census schedules have been included as basic variables in the CANIND71 database. These are: name of proprietor, kind of industrial business, geographical location, use of non-manual forms of power, numbers of workers (distinguished into men, women, boys and girls), number of working months in the year, and the dollar amounts of fixed and floating capital invested, wages, raw materials and products, as well as kinds, quantities, units of measurement and values of individual raw materials and products, and additional remarks or comments.

In addition to the information transcribed from the census manuscripts, the CANIND71 database contains several variables derived by calculation or inference from the basic variables. These include the total values of raw materials or of products

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<sup>4</sup> Census of Canada 1871, volume III, Tables 28-55.

<sup>5</sup> For a more detailed discussion of the 1871 Census procedures and a comparison of the published and manuscript data for industry in 1871, see Creating CANIND71: Procedures for Making the 1871 Census Machine-Readable (Research Report 4, 1989).



(when only details for component products or materials had been stated on the manuscript schedules), the value added (gross value of output less costs of raw materials when both these figures were reported), the total number of employees, and the average monthly wage per employee.

### **Geographical Organization**

The original descriptions of geographical areas defined for the 1871 Census were researched to ensure that the codes and place names were entered accurately and consistently into the database. For ease in returning to the original schedules, we adopted the same code letters and numbers that were used in 1871 to describe the Census Districts, Census Sub-Districts and Census Enumerators' Divisions. The 206 Census Districts were intended to correspond with the Electoral Districts defined under the British North America Act 1867.<sup>6</sup> Census Districts were divided into 1,701 Census Sub-Districts, which were intended to correspond with Municipal or other recognized divisions -- towns, villages, townships or city wards in Ontario, for example. The Census Sub-Districts were subdivided into nearly 3,000 Census Enumerators' Divisions, but these were defined for convenience of census-taking rather than to coincide with any other system of defining areas and no maps or written descriptions of these units have survived.<sup>7</sup>

Details of Census District name (with variable name CDISTRIC) and number (CDID), Census Sub-District name (CSD) and Census Enumerator's Division (CED) were coded for each manuscript record as it was entered into the CANIND71 database. Usually this information was written by the census enumerators on the manuscript schedules. But we had to standardize the names and codes for computer processing. We numbered the Census Districts in the same sequence from 001: Essex in southwest Ontario to 206: Richmond, Nova Scotia. Census district numbers in Ontario were prefaced with the letter O. We also adopted the same code letters and numbers that were used to describe the smaller Census Sub-Districts and Census Enumerators' Divisions in 1871. Municipal status was abbreviated as V-Village, T-Town (or Ville), C-City and Tp-Township. In the case of CSDs with the same principal name, they are distinguished by the directional abbreviations following the place name, such as N for North or Nord, S for South or Sud, E for East or Est, W for West.

### **Industrial Classification**

The census enumerators used natural language to describe the kinds of establishment and industrial raw materials and products they encountered.<sup>8</sup> In creating the CANIND71 database, we entered the enumerators' words into the computer record, but we also assigned standardized codes to each record to denote industry types and major groups more precisely and consistently. These codes are vital for analysis of the data.

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<sup>6</sup> Statutes of Canada, 33 Vict. 1870, Cap. 21, s. 4.

<sup>7</sup> See G.T. Bloomfield, Boundaries of Canadian Census Units in 1871 (CANIND71 Research Report 10, 1990).

<sup>8</sup> See Glossary of Industrial Language (CANIND71 Research Report 5, 1989) and French-English Dictionary of Industrial Language (CANIND71 Research Report 6, 1989).

Each record in the CANIND71 database has been assigned a code according to the 1970 Standard Industrial Classification Manual of the Canada Dominion Bureau of Statistics.<sup>9</sup> Understandably, there were some problems in applying a 1970 classification to the conditions of a century earlier. Changes in technology have eliminated some industry types that were common in 1871. The more rudimentary level of economic and business organization in 1871 meant that many enterprises combined industrial activities that would typically be separated in specialized businesses by 1970. Repair of all kinds of goods and equipment was more integrally associated with manufacture in 1871.

The appropriate SIC code for each record was determined by study of both the stated kind of establishment and the actual products and raw materials reported in each case. Wherever possible, we chose the SIC code that best matched the actual outputs of the business as reported for the year ending March 31, 1871. The "kind of establishment" information alone could be quite misleading, as this term was sometimes an occupational label that did not really describe the actual products. For example, a business might be described very generally as a "foundry", which would rate a code of "294" only if its products were primarily iron castings. More typically, the products of so-called foundries in 1871 were fabricated metal products such as stoves (307-S) or general machinery (315) or agricultural implements (311). In another example, one who was by trade a blacksmith and so recorded in the "kind of establishment" column may have had opportunities to make all kinds of metal goods, often including carriages and wagons. If he made definite numbers of carriages or other items of transportation equipment, his business would be assigned the appropriate and more specific SIC code of "329" rather than "896" which would be assigned for a blacksmith engaged only in "country work and repairs".

We adapted the 1970 system to the 1871 context in two main ways. First, suffixes of hyphen and capital letter could be added to the basic 3-digit code to give greater specificity, a brewery (109-B) being distinguished from a distillery (109-D) for example. Second, an establishment that combined two or more products or services was given a compound SIC code, consisting of the two most important linked by a slash (/), so that a flour mill-cum-distillery is represented as "105/109-D".

These elaborations of the basic classification system resulted in a total list of over 700 specific codes that were used to describe the 45,070 firms in the four provinces in 1871. A few of these codes were shared by large numbers of establishments. Thus 5,254 blacksmiths were assigned the SIC code of "896", 5,088 saw mills had the basic code of "251", and 4,189 shoemakers were coded "174". Some 2,830 handloom weavers were given the code "182-W", 2,527 carriage and wagon makers were coded "329", and 2,098 flour mills share the code "105". Basic SIC codes assigned to at least 50 industrial establishments throughout Canada are listed in Table 1. At the other extreme, some significant enterprises had codes that were unique for Canada.

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<sup>9</sup> For a more detailed discussion of our use of SIC codes, see G.T. Bloomfield, Standard Industrial Classifications Applied to Historical Data (CANIND71 Research Report 7, 1989). The CANIND71 classification is based on Dominion Bureau of Statistics, Standard Industrial Classification Manual (Ottawa, 1970); for French-language equivalents we consulted Statistique Canada, Classification type des industries (Ottawa, 1990).



Table 1  
**STANDARD INDUSTRIAL CLASSIFICATION (1970) ADAPTED FOR 1871:**  
 short list of codes with at least 50 occurrences in CANIND71 database

101-P	Pork Curing/Packing	Salaison de porc
102	Fish Curing	Salaison de poisson
104	Cheese Factories	Fromageries
105	Flour/Grist Mill	Farine, Moulin à
105-O	Oatmeal Mill	Avoine, Moulin d'
107	Bakeries	Boulangeries
108-C	Confectionery	Confiserie
109-B	Brewery	Brasserie
109-S	Aerated Water	Eaux gazeuses
153	Tobacco Working	Tabac, Manufacture d
172	Tanneries	Tanneries
174	Boots/Shoes	Bottes/Souliers
179-S	Saddle/Harness Making	Selles]
182	Woolen Cloth Factories	Drap, Fabriques de
182-W	Weaver	Tisserand
189-W	Carding/Fulling Mills	Carder/fouler, Moulins à
239-K	Stockings/Mittens/Hand Knitter	Bas/Mitaines/Tricoteur
242	Clothing	Habillements
243	Tailors/Clothiers	Habillements pour hommes
246	Furrier/Hatter	Pelleterie/Chapellerie
249-M	Milliner	Modiste
251	Saw Mill	Moulin à scie
251-S	Shingle Making	Bardeaux, Confection de
254	Sashes/Doors/Blinds	Portes/Fenêtres
256	Basket Making	Vanneries
259	Wood Products, Misc	Produits de bois, divers
259-C	Cooperage	Tonnellerie
259-W	Wood Turning Establishments	Tours à bois
261	Cabinets/Furniture	Meublerie
286	Printing office	Imprimerie
287-B	Book Binding	Reliure
289	Printing/Publishing incl newspapers	Imprimerie/Publication de
294	Foundry/Castings	Fonderie/Fonte
304-T	Tinsmith	Ferblantier
306	Agricultural Hand Tools	Outils agricoles manuels
306-T	Axes	Haches
307-S	Stoves	Poêles
309	Metal Fabricating, Misc	Fabrication de métaux
311	Agricultural Implements	Instruments aratoires
315	Machinery, Misc	Machinerie/Équipement
315-H	Spinning Wheels	Rouets
315-P	Pumps	Pompes
327	Ship Yards	Navires, Construction de
327-M	Ship Material	Appareux de navire
328	Boat Building	Chaloupes, Construction
329	Carriage Making	Carrosserie
329-P	Wheels (* and other parts)	Roues
351-B	Brick/Tile Making	Briqueterie/Tuilerie
351-P	Pottery	Poterie
353	Stone/Marble Establishments	Marbrerie
358-L	Lime Kilns	Fours à chaux
365	Oil Refineries	Épuration de l'huile
374	Drugs	Drogues
376	Soap/Candle Making	Savonneries/Chandelleries
378-P	Pot/Pearl Asheries	Potasseries
392	Jeweler/Watchmaker	Bijoutier/Horloger
421-C	Carpenter/Joiner (buildings)	Charpentier (bâtiments)
421-D	Painter/Glazier	Peintre en bâtiments
893	Photographic galleries	Photographies
896	Blacksmithing	Forges

The SIC codes were generalized into the 26 Major Industry Groups (or SECs) that were also coded for each record (Table 2). This table also reflects the inclusion by the 1871 census enumerators of a wider range of industrial activities and processes than would be defined as manufacturing industry today. Eighty-six per cent of the establishments are classified in the Major Group 5 for Manufacturing Industry, with SIC codes between 101 and 399, accounting for 95 per cent of the total value of industrial output in 1871.

Table 2  
STANDARD INDUSTRIAL CLASSIFICATION:  
MAJOR GROUPS AND SIC CODES

Major Group SEC	SIC codes
Division 1 Agricultural Services	021-029
Division 2 Forestry	031-039
Division 3 Fishing	041-049
Division 4 Mines, Salt Wells etc	051-099
<b>Division 5 Manufacturing Industries</b>	
5.01 Food and Beverages	101-109
5.02 Tobacco Products	151-159
5.04 Leather Industries	171-179
5.05 Textile Industries	181-189
5.06 Knitting Mills	231-239
5.07 Clothing Industries	241-249
5.08 Wood Industries	251-259
5.09 Furniture Industries	261-269
5.10 Paper Industries	271-279
5.11 Printing and Publishing	281-289
5.12 Primary Metal Industries	291-299
5.13 Metal Fabricating	301-309
5.14 Machinery Industries	311-319
5.15 Transportation Equipment	321-329
5.17 Non-metallic Minerals	351-359
5.18 Petroleum & Coal Products	361-369
5.19 Chemical Industries	371-379
5.20 Miscellaneous Manufactg	391-399
Division 6 Construction Industry	401-499
Division 7 Gas and Water Utilities	572-579
Division 8 Trade (incl repair)	601-699
Division 10 Personal/business services	861-899

Using the SIC and geographical codes, data for individual establishments can be aggregated in all sorts of ways. In the sample records and tables presented in this report, we use the same variable names as in the CANIND71 database. They are explained in Table 3.

Table 3  
VARIABLE NAMES IN CANIND71 DATABASE

Abbreviated code names for variables in the CANIND71 database are used in various tables in this report. A brief explanation of each code name follows:

AVWAGE:	Average monthly wage per worker in a firm, place or type of industry.
CDID:	Census district number used in 1871 census.
CDISTRIC:	Census district name used in 1871 census.
CED:	Census enumerator's division, a small part of a census district.
COMMENTS:	Additional remarks or comments for a firm entered in manuscript schedule.
EMPBOY:	Boys (males under 16 years) employed in industrial activity.
EMPGIRL:	Girls employed (females under 16 years) in industrial activity.
EMPMEN:	Men (males over 16 years) employed in industrial activity.
EMPWOM:	Women (females over 16 years) employed in industrial activity.
FIXCAP:	Value of fixed capital reported by proprietors.
FLOCAP:	Value of floating or working capital reported by proprietors.
FORCE:	Units (in "horse power" equivalents) of non-manual power reported by proprietors.
MONTH:	Number of working months in year.
OBSERV:	Observation, unit or record in a database; in the case of CANIND71 means individual industrial establishment.
PROD1:	Named type of product, first to Nth, as numbered.
PROPRIOR:	Name of proprietor as stated in census schedules.
PQUANT1:	Quantity of named product, first to Nth, as numbered.
PUNIT1:	Unit of measurement of named product, first to Nth, as numbered.
PVALUE1:	Value of named product, first to Nth, as numbered
RAWMAT1:	Named type of raw material, first to Nth, as numbered.
RQUANT1:	Quantity of named raw material, first to Nth, as numbered.
RUNIT1:	Unit of measurement of named raw material, first to Nth, as numbered.
RVALUE1:	Value of named raw material, first to Nth, as numbered.
SEC:	Major industry group, derived from combinations of SIC codes.
SIC:	Standard Industrial Classification.
SUMPROC:	Value of industrial production (\$).
SUMRAWC:	Value of raw materials used in industry (\$).
TOTEMP:	Total number of employees, the sum of EMPMEN, EMPWOM, EMPBOY and EMPGIRL.
TYPEEST:	Type of establishment as stated by enumerator in census schedules.
TYPEPOW:	Type of power reported: steam, water, horse, W/S (water/steam).
VADD:	Value added in manufacturing (\$) = production \$ - raw materials \$.
WAGES:	Wages paid to industrial workers (\$).



## ACKNOWLEDGEMENTS

Between 1982 and 1990, the CANIND71 Project based in the Department of Geography of the University of Guelph, computerized the full data for some 45,000 industrial establishments that were enumerated in Canada's first national census in 1871. We appreciate the shelter and support provided to the project by the Department of Geography. Creation and documentation of the CANIND71 database were substantially assisted by several grants from the Social Sciences and Humanities Research Council of Canada between 1985 and 1989. The most substantial of these were Grants 482-87-0010 and 482-88-0010 to Elizabeth Bloomfield as principal investigator. In a new phase of the project, computer method, led by Gerald Bloomfield and supported by SSHRCC funds, computer methods of mapping the historical data are being developed.

The interest and support of all who have assisted with this project are gratefully acknowledged. Janine Grant, Barbara Sibley, Jane Turner, Jane Darch and Stephen Bellinger worked for the project for significant periods, and the quality of the final database owes much to their careful and thorough work. Peter McCaskell, first as programmer-analyst in the Department of Geography and then from the University's Computing Services, played an essential role in database management and programming through all phases of the project. Mario Finoro, chief technician of the Department of Geography, has assisted in the acquisition, setting up and maintenance of the equipment. The computer maps in this series are the work of Larry Laliberté, while the graphs of industrial structure were produced in final form by Marie Puddister.

Elizabeth and Gerald Bloomfield



## NORFOLK COUNTY INDUSTRIES, 1871

Settled from the end of eighteenth century, Norfolk County reached its peak rural population density of 46 persons per square mile in the early 1870s. Without any railway services at all by 1871, the county had not been much affected by industrialization on any scale. The county's mean value of industrial production per capita (\$43.28) was significantly lower than the mean for Ontario (\$74.00). The average number of employees per industrial establishment was only 3 in Norfolk compared with 4.4 in Ontario as a whole, and the mean value of output per establishment was also much lower -- \$3,422 compared with \$5,516.<sup>10</sup>

### Census and Municipal Units

Census Districts were defined to match federal electoral districts rather than counties in 1871. However, the component Sub-Districts matched the smaller municipal units of townships, towns, villages or city wards. Norfolk County was divided between the two Census Districts of Norfolk North (with four townships) and Norfolk South (including three townships and the town of Simcoe which was also the county seat). The Census Sub-Districts of Norfolk County are shown in Figure 1 and their basic statistics of area (sq mls), population (pop), industrial establishments (est) and industrial employees (empl) are set out in Table 4.

While larger enterprises were usually located in incorporated urban centres, industry was also dispersed in smaller villages and hamlets. The census manuscript schedules do not specify location in such smaller, unincorporated centres but it can be useful when comparing the census data with information from other sources to know which hamlets and villages were included in particular Census Sub-Districts. Four unincorporated villages had at least 500 people each -- Port Dover with about 1,100, Port Rowan and Waterford with 900 each, and Vittoria with about 600. Norfolk County's central places are listed in Table 5.<sup>11</sup>

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<sup>10</sup> A full bibliography of the historical development of industry in each community cannot be given here, but the following items consider industry among other topics:

Brown, Lewis, A history of Simcoe, 1829-1929 (Simcoe: Pearce Publishing, 1929).

Judd, David et al. Simcoe: county town of Norfolk (Norfolk Historical Society, 1985).

Pearce, Bruce M. Historical highlights of Norfolk County (Simcoe: Pearce Publishing, 2 v. 1967-1973).

The information contained in this report about proprietors of industrial establishments in 1871 may be related to the valuable index of all household heads provided in Index to the 1871 Census of Ontario: Haldimand-Norfolk (Toronto: Ontario Genealogical Society, 1988).

<sup>11</sup> For a more detailed discussion of the location of smaller villages and hamlets in relation to the 1871 Census units, see G.T. Bloomfield, Ontario Central Places in 1871: A Gazetteer Compiled from Contemporary Sources (CANIND71 Research Report 13, 1990).

Table 4  
NORFOLK COUNTY: CENSUS DISTRICTS AND SUB-DISTRICTS, 1871

CDID	CED	CENSUS SUB-DISTRICT	SQM	POP	EST	EMPL
** CENSUS DISTRICT O011: NORFOLK NORTH						
O011	A	HOUGHTON TOWNSHIP	61.84	2118	27	46
O011	B	WALSINGHAM TOWNSHIP	144.27	5290	49	124
O011	C	CHARLOTTEVILLE TOWNSHIP	90.20	4097	46	172
O011	D	WOODHOUSE TOWNSHIP	54.50	3865	52	113
** CENSUS DISTRICT O012: NORFOLK SOUTH						
O012	A	MIDDLETON TOWNSHIP	72.36	3261	51	123
O012	B	WINDHAM TOWNSHIP	105.72	4799	53	231
O012	C	TOWNSEND TOWNSHIP	105.80	5474	54	166
O012	D	SIMCOE TOWN	0.74	1856	57	212

### Location and Distribution

Of the total county population of 30,760, only 6 per cent lived in the one incorporated urban centre of Simcoe (population 1,856), which accounted for 15 per cent of the county's modest industrial output. In an analysis of all Ontario urban centres, Simcoe was found to rank well below the Ontario mean for level of industrialization and to lack any industrial specialization or leading enterprise.<sup>12</sup> The three townships of Charlotteville, Townsend and Windham each reported more industrial output from their rural mills and craftshops than the town of Simcoe.

### Industry Types

Using the Standard Industrial Classification (SIC) code of each record and the more generalized Major Industry Group (SEC), it is possible to describe and compare the industrial structures of places from whole provinces to local townships and villages. In coding all the industrial establishments of Norfolk County, only 44 different basic SIC codes (including suffixes, but trimming compounds) are used (Table A-3). In all of Ontario, a total of 172 such codes are used, and 196 in all of Canada.

When Norfolk County's industrial structure is compared with that of all Ontario, the mix of industry types is found to be characteristic of rural areas. Figure 2 has been designed to show these as clearly as possible, using major industry groups (SECs in the database). Wood processing, the largest industrial sector in Norfolk as in Ontario generally, was generally located outside urban areas and often on the margins of settlement. In Norfolk County, sawmilling and wood processing, mainly of hardwood species, employed twice the average proportion of the workforce in Ontario as a whole. Sawmills coexisted with the processing of farm products in grist mills and tanneries.

<sup>12</sup> For analysis of the urban concentration of industry and of differences between specific urban centres, see Elizabeth Bloomfield and G.T. Bloomfield, The Ontario Urban System at the Onset of the Industrial Era (CANIND71 Research Report 3, 1989).

Table 5: NORFOLK COUNTY: CENTRAL PLACES, 1871

<u>Place</u>	<u>Population</u>	<u>Township</u>	<u>CSD</u>	<u>Sources</u>	<u>Lat.</u>	<u>Long.</u>
ACACIA <i>formerly Ostrander's Mills; later New England (C2)</i>	100	Middleton	12A	L P	42 49	80 44
ATHERTON <i>also known as Trentonville (L), Windham (L); formerly Alma's Corners, Atherton Corners (C2), Junctionville</i>	80	Windham	12B	L P	42 49	80 27
BEALTON <i>formerly Centreville (C)</i>	100	Townsend	12C	L P	43 00	80 13
BLOOMSBURG	100	Townsend	12C	D L P	42 53	80 18
BOOKTON	80	Windham	12B	L P	42 57	80 30
BOSTON	300	Townsend	12C	D L P	42 59	80 16
BRANDY CREEK	100	Windham	12B	D L P	42 53	80 29
CHARLOTTEVILLE CENTRE <i>post office called Walsh; place later called Walsh</i>	100	Charlotteville	11C	L	42 45	80 24
CLEAR CREEK	100	Houghton	11A	D L P	42 35	80 36
COLBORNE 1 <i>on boundary with Windham Tp</i>	80	Townsend	12C	D L	42 51	80 19
COURTLAND <i>also known as Middleton Centre (C2); formerly Ronson's Corners</i>	150	Middleton	12A	L P	42 51	80 38
CROTON 2	30	Middleton	12A	L	42 50	80 29
DELHI <i>post office of Fredericksburg; post office formerly Middleton; on boundary with Windham Tp</i>	.	Middleton	12A	D M	42 51	80 30
DOG'S NEST	30	Woodhouse	11D	L	42 48	80 10
FORESTVILLE	100	Charlotteville	11C	D L P	42 42	80 23
FREDERICKSBURG <i>formerly Sovreen's Corners; post office at Delhi; on boundary with Windham Tp</i>	300	Middleton	12A	L	42 51	80 30
GLENMEYER <i>on boundary with Walsingham Tp</i>	80	Houghton	11A	L P	42 44	80 41
GUYSBORO	150	Middleton	12A	D L P	42 46	80 42
HARTFORD	100	Townsend	12C	D L P	43 00	80 10
HOUGHTON <i>post office of Houghton Centre; place later Houghton</i>	.	Houghton	11A	P	42 39	80 40
HOUGHTON CENTRE <i>post office called Houghton; place later Houghton</i>	80	Houghton	11A	D L	42 39	80 40
JUNCTIONVILLE <i>also known as Atherton</i>	.	Windham	12B	D	42 49	80 27
KELVIN <i>on boundary with Burford Tp, Brant Co</i>	200	Windham	12B	D L P	43 00	80 27
KINGLAKE	50	Houghton	11A	D L P	42 42	80 42
LANGTON <i>formerly North Walsingham</i>	60	Walsingham	11B	D L P	42 45	80 35
LYNEDOCH	200	Charlotteville	11C	D L M	42 48	80 30
LYNNVILLE	90	Windham	12B	L P	42 53	80 22
MARSTON <i>formerly Venison Creek (C)</i>	50	Walsingham	11B	L P	42 39	80 33
NORMANDALE	100	Charlotteville	11C	D L P	42 43	80 19



PLEASANT HILL	.	Walsingham	11B	D	P	42	41	80	32	
formerly Brown Stone (C); later Walsingham Centre, Walsingham										
PORT DOVER	1100	Woodhouse	11D	D	L	B	42	47	80	12
also known as Dover Mills; formerly Dover										
PORT ROWAN	900	Walsingham	11B	D	L	B	42	37	80	28
formerly Dutcher's Corners (C)										
PORT ROYAL	100	Walsingham	11B	D	L	P	42	36	80	29
PORT RYERSE	300	Woodhouse	11D	D	L	P	42	45	80	15
PORTLAND 1	50	Charlotteville	11C	D	L		42	46	80	29
RANELAGH	80	Windham	12B	D	L	P	42	59	80	30
on boundary with Burford Tp, Brant Co										
RENTON	50	Townsend	12C	D	L	P	42	51	80	14
ROCKFORD	100	Townsend	12C	D	L	P	42	55	80	10
ROLPH	.	Middleton	12A	D			42	50	80	39
later Ronson										
RONSON	.	Middleton	12A	D	P		42	50	80	39
formerly Rolph										
ROUND PLAINS	150	Townsend	12C	D	L	P	42	56	80	20
on boundary with Windham Tp										
ROWAN MILLS	.	Walsingham	11B	D			42	37	80	32
also known as Stisted; formerly De Blaquier's Hollow (C)										
SILVERHILL	50	Charlotteville	11C	D	L	P	42	45	80	29
SIMCOE	1856	Simcoe T	12D	D	L	B	42	50	80	18
SOUTH MIDDLETON	60	Middleton	12A		L	P	42	47	80	36
SPRING ARBOUR	100	Walsingham	11B	D	L	P	42	39	80	32
formerly Hazen Settlement (C)										
ST WILLIAMS	150	Walsingham	11B	D	L	P	42	40	80	25
formerly Cope's Landing, Walsingham; on boundary with Charlotteville Tp										
STISTED	80	Walsingham	11B		L	P	42	37	80	32
also known as Rowan Mills; formerly De Blaquier's Hollow (C)										
TEETERVILLE	200	Windham	12B	D	L	P	42	56	80	26
formerly Blakeston										
TOWNSEND CENTRE	100	Townsend	12C	D	L	P	42	56	80	15
TYRRELL	80	Townsend	12C	D	L	P	42	52	80	13
also known as Hoperville										
VILLA NOVA	100	Townsend	12C	D	L	P	42	56	80	12
VITTORIA	600	Charlotteville	11C	D	L	M	42	46	80	19
WALSH	.	Charlotteville	11C	D	P		42	45	80	24
post office of Charlotteville Centre; place later Walsh										
WALSINGHAM CENTRE	250	Walsingham	11B	D	L		42	41	80	32
formerly Brown Stone (C), Pleasant Hill; later Walsingham										
WATERFORD	900	Townsend	12C	D	L	B	42	56	80	17
formerly Avery's Mills (C)										
WINDHAM CENTRE	100	Windham	12B	D	L	P	42	55	80	25

Note: Lat = Latitude; Long. = Longitude.

Three primary sources were used to generate this list of places for 1871:

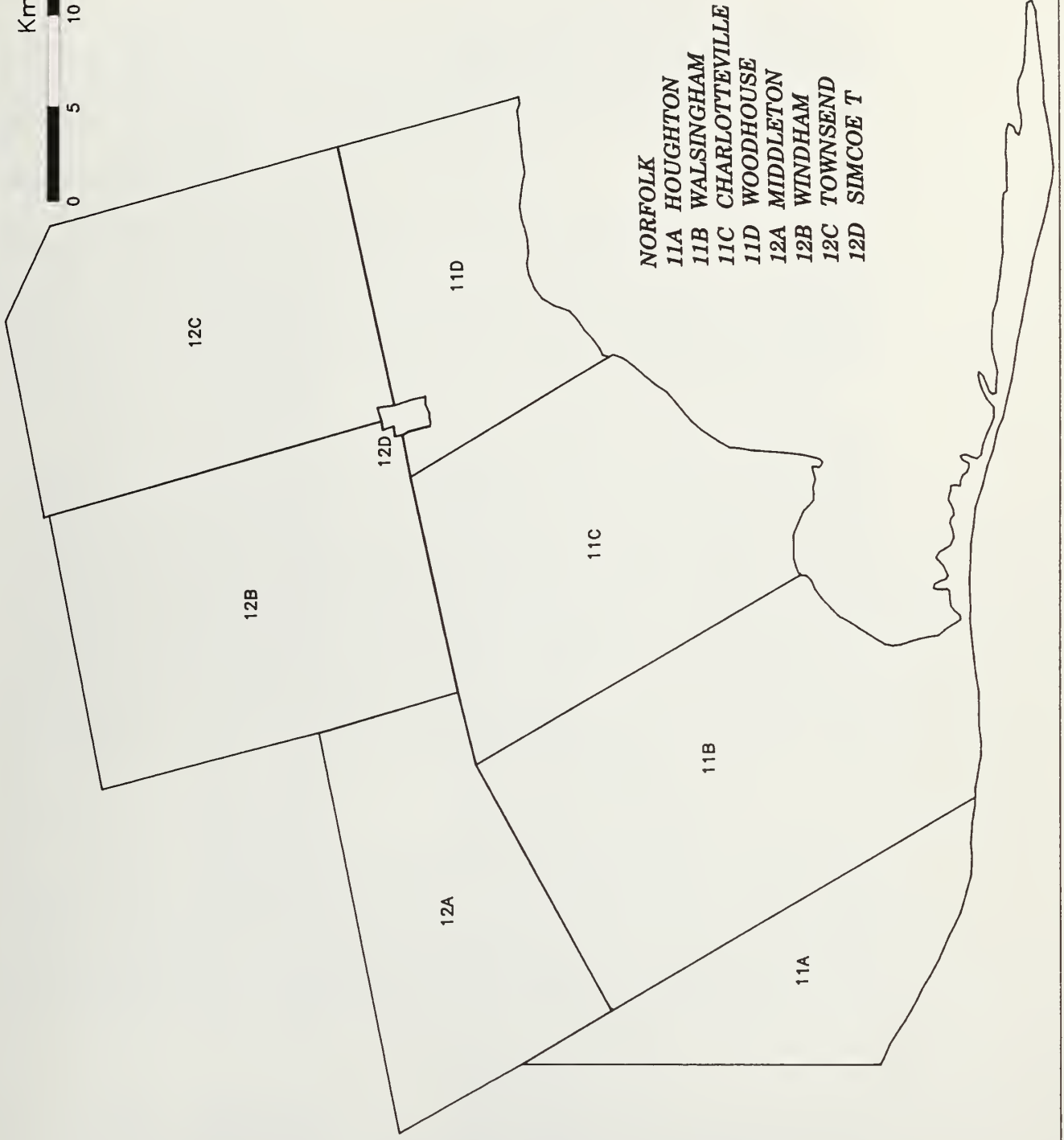
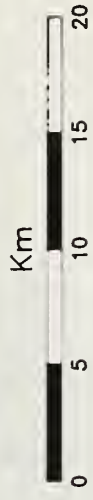
R.G. Dun and Co.'s Mercantile Agency Reference Book (D);

Lovell's Canadian Dominion Directory for 1871 (L);

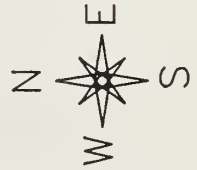
Canadian Almanac and Repository of Useful Knowledge 1871 (P for ordinary post office, M for post office that could issue money orders, B for post office with savings bank function.



# NORFOLK COUNTY

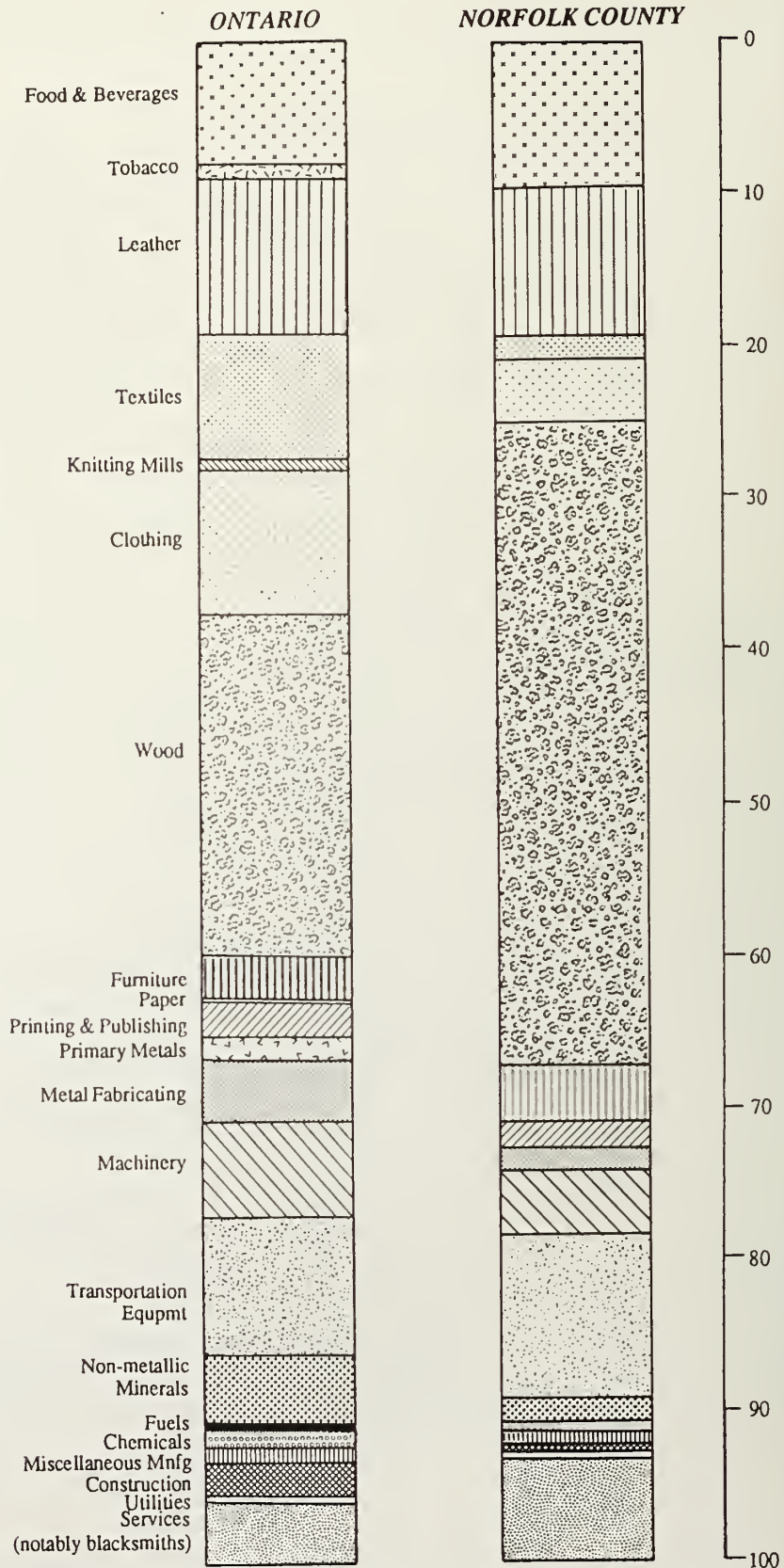


NORFOLK  
11A HOUGHTON  
11B WALSINGHAM  
11C CHARLOTTEVILLE  
11D WOODHOUSE  
12A MIDDLETON  
12B WINDHAM  
12C TOWNSEND  
12D SIMCOE T



CANIND71

COMPARATIVE INDUSTRIAL STRUCTURES: Percentages Employed in Major Industry Groups (SECs)



Textile production, usually located in rural areas and small villages, was notably under-represented in the county. While metal processing and fabricating and machinery were weaker than generally in Ontario, the manufacture of transportation equipment (carriages and wagons) was somewhat stronger and blacksmiths were nearly twice as significant in Norfolk County as in the whole province.

### Size of Establishment

Virtually all of Norfolk County's industrial establishments were very small craftshops -- blacksmiths, tinsmiths, bakers, saddlers, shoemakers, tailors, milliners, weavers and knitters, coopers, carpenters, carriage and wagon makers. Over eighty-eight per cent of workplaces in the county had five or fewer workers, a higher proportion than in Ontario generally (Table 6). Only three establishments reported more than 25 employees: these were the sawmills of McCall (28 workers) and Potts (30) in Charlotteville Township and the Greens' foundry (32) in Townsend Township.

Many industrial establishments had small values of production as well: nearly one in four of Norfolk County's units produced industrial output valued at \$500 or less, a larger share of small producers than in Ontario as a whole. These small firms accounted for under 2.5 per cent of the total value of production. At the other extreme, only one enterprise, Clark and Duncombe's grist and saw mill in Townsend Township, reported more than \$50,000 worth of output in 1871. The full manuscript details for the thirteen county businesses that either employed more than 25 workers or reported output worth over \$25,000 are reproduced here as sample records. It may be noted that these larger establishments include four grain mills, two distilleries, five sawmills, one combined grist/saw mill and one foundry. No Norfolk enterprises ranked among Canada's industrial leaders in 1871, calculated as those in the top one per cent of Canadian firms in all four measures of number of employees, value of fixed capital investment, gross value of production, and value added in manufacturing.<sup>13</sup>

### Power Technology

Just over one in three of the industrial firms in Norfolk County in April 1871 reported using inanimate energy of waterwheels and steam engines while most depended on the power of human workers or draft animals. Powered firms were disproportionately important in employment, investment and production. Enterprises using waterwheels and steam engines employed almost one in two of all industrial workers, reported more than 80 per cent of fixed capital invested in industry and accounted for over 75 per cent of the county's value of industrial production.<sup>14</sup>

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<sup>13</sup> See Elizabeth Bloomfield and G.T. Bloomfield, Patterns of Canadian Industry in 1871: An Overview Based on the First Census of Canada (CANIND71 Research Report 12, 1990) and Industrial Leaders: The Largest Manufacturing Firms (CANIND71 Research Report 8, 1990).

<sup>14</sup> See G.T. Bloomfield, Water Wheels and Steam Engines: Powered Establishments of Ontario (CANIND71 Research Report 2, 1989).

Table 6  
6a. ONTARIO INDUSTRIAL ESTABLISHMENTS, 1871  
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

Firm size # employees	Establishments % total	Employment % total	Production % total	Value Added % total
<u>small</u>				
1	39.8	9.0	6.1	6.2
2 - 5	45.3	28.5	29.9	25.7
<u>medium</u>				
6 - 50	14.1	40.1	44.2	44.6
<u>large</u>				
50+	0.8	22.4	19.8	23.5
TOTALS	100.0	100.0	100.0	100.0

6b: NORFOLK COUNTY INDUSTRIAL ESTABLISHMENTS, 1871  
BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM

Firm size # employees	Establishments % total	Employment % total	Production % total	Value Added % total
<u>small</u>				
1	39.6	12.8	19.6	14.4
2 - 5	49.1	45.0	44.2	45.8
<u>medium</u>				
6 - 25	10.5	34.6	31.6	32.6
26 - 50	0.8	7.6	4.6	7.1
TOTALS	100.0	100.0	100.0	100.0

Industrial employees in Norfolk County were recorded in workplaces which were more smaller and more dependent on water power than in Ontario generally. Waterwheels powered more than 44 per cent of the county's industrial output, compared with a mean of only 29 per cent across the province. Table A-5 lists the 29 establishments using water or steam power of at least 25 horsepower capacity: 15 reported waterwheels, 13 steam engines and one water-power boosted by steam.

### Work Environments

The CANIND71 database provides a snapshot of the transition from artisanal craftshops to factories using machinery and integrated work processes. A useful concept in understanding this transition is the **work environment**, which combines measures of the size of the workplace with the extent to which non-manual power was used in the industrial process. Powered and non-powered work environments are classified as to the size of their workforces, in four size classes: 1-5 workers, 6-25 workers, 26-50 workers, and 51 or more workers. Powered establishments with at least 26 workers



## CANIND71 SAMPLE RECORDS

17

proprior: NICHOLSON J	typeest: GRIST MILL	refnum: 2822
cdid: 0011 ced: C-2	cdistric: NORFOLK SOUTH	csd: CHARLOTTEVILLE
sec: 5.01 sic: 105	month: 12	prop:
fixcap: 8800 floccap: 200	typepow: WATER	force: 20
empmen: 2 empwom: .	empboy: .	empgirl: .
totemp: 2 wages: 600	avwage: 25.00 per worker/month	
sumrawc: 22490	sumproc: 26490	vadd: 4000
rawmat1: GRAIN,WHEAT runit1:	rquant1: 10000	rvalue1: 10000
rawmat2: GRAIN,CORN runit2:	rquant2: 15000	rvalue2: 7500
rawmat3: GRAIN,BUCKWHEAT runit3:	rquant3: 1000	rvalue3: 500
rawmat4: GRAIN,BARLEY runit4:	rquant4: 500	rvalue4: 300
rawmat5: GRAIN,RYE runit5:	rquant5: 5000	rvalue5: 3000
rawmat6: GRAIN,OAT runit6:	rquant6: 500	rvalue6: 190
rawmat7: PEAS runit7:	rquant7: 2000	rvalue7: 1000
prod1: FLOUR,WHEAT punit1: LB	pquant1: 400000	pvalue1: 12000
prod2: CHOP/CORNMAL punit2:	pquant2: 840000	pvalue2: 8400
prod3: FLOUR,BUCKWHEAT punit3:	pquant3: 25000	pvalue3: 800
prod4: CHOP,BARLEY punit4:	pquant4: 24000	pvalue4: 350
prod5: CHOP,RYE punit5:	pquant5: 280000	pvalue5: 3500
prod6: CHOP,OAT punit6:	pquant6: 17000	pvalue6: 240
prod7: CHOP,PEA punit7:	pquant7: 120000	pvalue7: 1200

proprior: SHAW JOHN	typeest: GRIST/FLOUR MILL	refnum: 2826
cdid: 0011 ced: C-2	cdistric: NORFOLK SOUTH	csd: CHARLOTTEVILLE
sec: 5.01 sic: 105	month: 12	prop:
fixcap: 5000 floccap: 5000	typepow: WATER	force: 16
empmen: 2 empwom: .	empboy: .	empgirl: .
totemp: 2 wages: 600	avwage: 25.00 per worker/month	
sumrawc: 22000	sumproc: 29500	vadd: 7500
rawmat1: GRAIN,WHEAT runit1:	rquant1: 15000	rvalue1: 18000
rawmat2: GRAIN,CORN runit2:	rquant2: 1000	rvalue2: 600
rawmat3: GRAIN,BUCKWHEAT runit3:	rquant3: 2000	rvalue3: 1000
rawmat4: GRAIN,RYE runit4:	rquant4: 1000	rvalue4: 1100
rawmat5: PEAS runit5:	rquant5: 1000	rvalue5: 600
rawmat6: GRAIN,BARLEY runit6:	rquant6: 500	rvalue6: 350
rawmat7: GRAIN,OAT runit7:	rquant7: 500	rvalue7: 350
prod1: FLOUR,WHEAT punit1:	pquant1: 660000	pvalue1: 19800
prod2: CHOP/CORNMAL punit2:	pquant2: 560000	pvalue2: 6500
prod3: FLOUR/CHOP,BUCKWHEAT punit3:	pquant3: 96000	pvalue3: 1200
prod4: CHOP,RYE punit4:	pquant4: 56000	pvalue4: 700
prod5: CHOP,PEAS punit5:	pquant5: 3000	pvalue5: 400
prod6: CHOP,BARLEY punit6:	pquant6: 2000	pvalue6: 500
prod7: CHOP,OAT punit7:	pquant7: 1700	pvalue7: 400

proprior: THOMPSON ANDREW	typeest: GRIST MILL	refnum: 2887
cdid: 0011 ced: D-2	cdistric: NORFOLK SOUTH	csd: WOODHOUSE
sec: 5.01 sic: 105	month: 12	prop:
fixcap: 13000 floccap: 400	typepow: WATER	force: 40
empmen: 2 empwom: .	empboy: .	empgirl: .
totemp: 2 wages: 400	avwage: 16.67 per worker/month	
sumrawc: 30000	sumproc: 33000	vadd: 3000
rawmat1: GRAIN runit1: BU	rquant1: 30000	rvalue1: 30000
prod1: FLOUR/FREED punit1:	pquant1: .	pvalue1: 33000

## CANIND71 SAMPLE RECORDS

proprior: POTTS J E		typeest: SAW MILL	refnum: 2836
cdid: 0011	ced: C-3	cdistric: NORFOLK SOUTH	csd: CHARLOTTEVILLE
sec: 5.08	sic: 251	month: 12	prop:
fixcap: 6000	flocap: 35000	typepow: STEAM	force: 40
empmen: 30	empwom: .	empboy: .	empgirl: .
totemp: 30	wages: 8000	avwage: 22.22 per worker/month	
sumrawc: 9000		sumproc: 26200	vadd: 17200
rawmat1: LOGS,PINE,OAK,CHESTNUT	runit1: LOG	rquant1: 18000	rvalue1: 9000
prod1: LUMBER	punit1:	pquant1: 3000000	pvalue1: 25500
prod2: LATH	punit2:	pquant2: 700000	pvalue2: 700
comments: PROPRIETOR'S STATEMENT WHO RESIDES IN ANOTHER MUNICIPALITY			

proprior: RENT GEORGE		typeest: SAW MILL	refnum: 2932
cdid: 0012	ced: A-2	cdistric: NORFOLK NORTH	csd: MIDDLETON
sec: 5.08	sic: 251	month: 7	prop:
fixcap: 1500	flocap: 1400	typepow: WATER	force: 18
empmen: 7	empwom: .	empboy: .	empgirl: .
totemp: 7	wages: 1100	avwage: 22.45 per worker/month	
sumrawc: 24000		sumproc: 30000	vadd: 6000
rawmat1: LOGS	runit1:	rquant1: 6000	rvalue1: 24000
prod1: LUMBER	punit1: FT	pquant1: 600000	pvalue1: 30000

proprior: LEWIS LEVI		typeest: SAW MILL	refnum: 2980
cdid: 0012	ced: B-2	cdistric: NORFOLK NORTH	csd: WINDHAM
sec: 5.08	sic: 251/251-S	month: 12	prop:
fixcap: 6000	flocap: 9000	typepow: STEAM	force: 40
empmen: 25	empwom: .	empboy: .	empgirl: .
totemp: 25	wages: 7800	avwage: 26.00 per worker/month	
sumrawc: 14000		sumproc: 33000	vadd: 19000
rawmat1: LOGS,PINE,OAK	runit1:	rquant1: 35000	rvalue1: 14000
prod1: LUMBER/LATH/SHINGLES	punit1:	pquant1: 4400000	pvalue1: 33000

proprior: CLARK THOMAS W & DUNCOMBE H		typeest: GRIST/SAW MILL	refnum: 3057
cdid: 0012	ced: C-4	cdistric: NORFOLK NORTH	csd: TOWNSEND
sec: 5.01	sic: 105/251	month: 12	prop:
fixcap: 16000	flocap: 4000	typepow: WATER	force: 100
empmen: 12	empwom: .	empboy: .	empgirl: .
totemp: 12	wages: 4000	avwage: 27.78 per worker/month	
sumrawc: 64000		sumproc: 84000	vadd: 20000
rawmat1: GRAIN	runit1: BU	rquant1: 40000	rvalue1: 28000
rawmat2: TIMBER	runit2: FT	rquant2: 1000000	rvalue2: 36000
prod1: FLOUR/FEED	punit1: LB	pquant1: 2000000	pvalue1: 35000
prod2: LUMBER	punit2:	pquant2: 1000000	pvalue2: 49000

proprior: GREEN J W & N		typeest: FOUNDRY/MACHINE SHOP	refnum: 3055
cdid: 0012	ced: C-4	cdistric: NORFOLK NORTH	csd: TOWNSEND
sec: 5.14	sic: 311/315	month: 12	prop:
fixcap: 12000	flocap: 15000	typepow: STEAM	force: 15
empmen: 32	empwom: .	empboy: .	empgirl: .
totemp: 32	wages: 7000	avwage: 18.23 per worker/month	
sumrawc: 3000		sumproc: 20000	vadd: 17000
rawmat1: IRON/COAL/LUMBER	runit1: TON	rquant1: 40	rvalue1: 3000
prod1: IMPLEMENTS,AGRICULTURAL/MACHINERY	punit1:	pquant1: .	pvalue1: 20000

## CANIND71 SAMPLE RECORDS

proprior: FORD N C & CO	typeest: FLOUR/GRIST MILL	refnum: 3079
cdid: 0012 ced: D	cdistric: NORFOLK NORTH	csd: SIMCOE T
sec: 5.01 sic: 105	month: 12	prop:
fixcap: 10000 floicap: 5000	typepow: WATER	force: 30
empmen: 4 empwom: .	empboy: .	empgirl: .
totemp: 4 wages: 1200	avwage: 25.00 per worker/month	
sumrawc: 20000	sumproc: 25000	vadd: 5000
rawmatl: GRAIN,WHEAT,CORN,RYE,BARLEY	runitl: BU rquantl: 25000	rvaluel: 20000
prodl: FLOUR/CORNMEAL	punitl: BBL pquantl: 5000	pvaluel: 25000

proprior: FORD N C & CO	typeest: DISTILLERY	refnum: 3080
cdid: 0012 ced: D	cdistric: NORFOLK NORTH	csd: SIMCOE T
sec: 5.01 sic: 109-D	month: 10	prop:
fixcap: 5000 floicap: 5000	typepow: WATER	force: 10
empmen: 4 empwom: .	empboy: .	empgirl: .
totemp: 4 wages: 2000	avwage: 50.00 per worker/month	
sumrawc: 9000	sumproc: 25000	vadd: 16000
rawmatl: GRAIN,RYE,CORN,BARLEY	runitl: BU rquantl: 12000	rvaluel: 9000
prodl: SPIRITS	punitl: GAL pquantl: 36000	pvaluel: 25000
comments: INCLUDING DUTY		

proprior: POTTS & COLMAN	typeest: DISTILLERY	refnum: 2823
cdid: 0011 ced: C-2	cdistric: NORFOLK SOUTH	csd: CHARLOTTEVILLE
sec: 5.01 sic: 109-D	month: 12	prop:
fixcap: 10000 floicap: 2000	typepow: STEAM	force: 15
empmen: 3 empwom: .	empboy: 1	empgirl: .
totemp: 4 wages: 1200	avwage: 25.00 per worker/month	
sumrawc: 6000	sumproc: 37200	vadd: 31200
rawmatl: GRAIN,CORN,RYE	runitl: BU rquantl: 10000	rvaluel: 6000
prodl: WHISKEY	punitl: GAL pquantl: 40000	pvaluel: 37200
comments: WITH DUTY INCLUDED		

proprior: MCCALL A & T	typeest: SAW MILL	refnum: 2814
cdid: 0011 ced: C-1	cdistric: NORFOLK SOUTH	csd: CHARLOTTEVILLE
sec: 5.08 sic: 251	month: 12	prop:
fixcap: 20000 floicap: 10000	typepow: STEAM	force: 40
empmen: 25 empwom: .	empboy: 3	empgirl: .
totemp: 28 wages: 6000	avwage: 17.86 per worker/month	
sumrawc: 6000	sumproc: 15000	vadd: 9000
rawmatl: WOOD,PINE,OAK,CHESTNUT	runitl: rquantl: 20000	rvaluel: 6000
prodl: LUMBER	punitl: FT BM pquantl: 2000000	pvaluel: 15000

proprior: THOMPSON ANDREW	typeest: SAW MILL	refnum: 2888
cdid: 0011 ced: D-2	cdistric: NORFOLK SOUTH	csd: WOODHOUSE
sec: 5.08 sic: 251	month: 2	prop:
fixcap: 600 floicap: 50	typepow: WATER	force: 20
empmen: . empwom: .	empboy: .	empgirl: .
totemp: 0 wages: 60	avwage: . per worker/month	
sumrawc: 20000	sumproc: 32000	vadd: 12000
rawmatl: LOGS	runitl: rquantl: 500	rvaluel: 20000
prodl: LUMBER	punitl: pquantl: 40000	pvaluel: 32000



are called **factories**, while **manufactories** are non-powered workplaces with at least 26 workers. Smaller powered establishments are called **mills** if they had from 6 to 25 workers, **powered craftshops** if they had 5 or fewer workers.

Workplaces using only hand or horse power are called **artisans' craftshops** if they employed 5 or fewer. Slightly larger craftshops, without water or steam power and employing between 6 and 25 workers, have been called **sweatshops** in the context of a large city. **Outworkers**, who toiled at home under the putting-out system, would be included with the artisans' craftshops, from which it is hard to distinguish them on census manuscript evidence alone.<sup>15</sup> We note that the terms used to describe the eight types of work environment do not necessarily match contemporary usage in 1871, when factories, manufactories and shops were generic terms used interchangeably for all sizes of establishment. Our transcription of the natural language used by the census enumerators allows readers to note this terminology in the (TYPEEST) Type of Establishment data in the Appendix tables of this report.

How significant were the various work environments in Norfolk County in 1871? The data in Table 7 summarize the smaller average size of workplaces in Norfolk County and the contrast between the powered mills and workshops of the rural countryside and the artisanal shops of Simcoe.

Very few women or girls were employed in the industrial workplaces of Norfolk County; they formed only 6 per cent of the total workforce, considerably less than their mean share of the industrial labour force across Ontario. Table A-6 lists the 13 workplaces that each reported at least two female workers. Typically, these are in the clothing sector, and well over half were in the urban centre of Simcoe. Norfolk County lacked the textile mills that employed female workers in some other counties.

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<sup>15</sup> For more discussion of this concept see Patterns of Canadian Industry in 1871 (Report 12) and Elizabeth Bloomfield and G.T. Bloomfield, Canadian Women in Workshops, Mills and Factories: The Evidence of the 1871 Census Manuscripts (CANIND71 Research Report 11, 1991).

USE OF POWER			
		non-powered (hand/horse only)	powered by water or steam
SIZE OF WORKFORCE	51+	MANUFACTORIES (larger)	FACTORIES (larger)
	26-50	MANUFACTORIES (smaller)	FACTORIES (smaller)
	6-25	SWEATSHOPS and larger CRAFTSHOPS	MILLS
	1-5	ARTISANS' CRAFTSHOPS	POWERED WORKSHOPS, smaller MILLS
		non-powered (hand/horse only)	powered by water or steam

Table 7  
DISTRIBUTION OF WORKERS IN WORK ENVIRONMENTS, 1871

Work Environment (# employees)	Rural Ontario	Urban Ontario	Rural Norfolk County	Urban Norfolk County
<b>Non-Powered</b>	%	%	%	%
Artisans (1-5 emp)	45.4	17.8	35.0	45.8
Sweatshops (6-25 emp)	5.8	20.2	3.2	17.9
Manufactories (26-50 emp)	0.3	4.8	-	-
Manufactories (>51 emp)	0.5	5.5	-	-
Sub-Total	52.0	48.3	38.2	63.7
<b>Powered</b>				
Small (1-5 emp)	15.8	3.2	23.8	7.5
Medium (6-25 emp)	19.6	13.0	28.8	28.8
Factories (26-50 emp)	5.4	8.3	9.2	-
Factories (>51 emp)	7.2	27.2	-	-
Sub-Total	48.0	51.7	61.8	36.3
<b>TOTAL</b>	100.0	100.0	100.0	100.0

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### Appendix Tables

This county report presents several kinds of tabulations which are briefly introduced here. In understanding the abbreviated code names of database variables, users are referred to Table 3 on page 7, for the Standard Industrial Classification codes to Table 1 on page 5, and for the Major Industry Groups to Table 2 on page 6.

**Table A-1: Norfolk County: Geographical Summary of Firms, 1871**

Summary data for each Census Sub-District (CSD), including horse-power units of non-manual power, value of fixed and floating capital, numbers of employees (men, women, boys, girls and total), annual wages paid, costs of raw materials, gross value of production, value added in manufacturing, and number of establishments. Data are totalled for each Census District (or part thereof) in the county, and totalled for the whole county. See Figure 1 for a map of CSDs and pp. 9-12 for discussion of the distribution of industrial activity.

**Table A-2: Norfolk County: Industrial Structure, 1871**

Summary data for each Major Industry Group, including numbers and percentages of establishments, horse-power units, value of fixed capital, total employment, gross value of production, and value added in manufacturing. See Figure 2 for diagrammatic representations for the employment structure by Major Industry Groups of Norfolk County in relation to the structure for all of Ontario in 1871.

**Table A-3: Basic SIC codes for Norfolk County, 1871**

Summary data for each Standard Industrial Classification type (including code suffixes but trimming compounds). For discussion of SIC types, see pp. 4-5 and p. 12.

**Table A-4: Listings of Individual Establishments, Ranked by Value of Output, for Various SIC Types, 1871**

Data for cheese factories; grain mills; beverages; tanneries; bootmakers; saddlers; textile mills and weavers; clothing shops; sawmills and wood processing; furniture shops; tinsmiths; machinery producers; carriage and wagon makers; and blacksmiths.

**Table A-5: Norfolk County: Firms Using Inanimate Power, 1871**

Data for individual establishments reporting at least 25 horsepower units of water or steam power, ranked by horsepower units.

**Table A-6: Norfolk County: Firms Employing at least Two Females in 1871**

Data for individual establishments, ranked by number of women and girls employed. Note use of FEMALE (total number of women and girls employed) as variable in this table only.

**Table A-7: Norfolk County: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name.

**Table A-8: Urban Centres: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name - Simcoe.



NORFOLK COUNTY: GEOGRAPHICAL SUMMARY OF FIRMS, 1871

CDID	CED	CSD	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMP GIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD	OBSERV
0011	A	HOUGHTON	155	12745	4882	43	1	2	.	46	7457	25840	40142	14302	27
0011	B	WALSINGHAM	326	39600	36996	114	2	7	1	124	27482	40223	94739	54516	49
0011	C	CHARLOTTEVILLE	345	78535	71346	157	3	12	.	172	36146	124854	236438	111584	46
0011	D	WOODHOUSE	272	56065	32870	101	6	6	.	113	26645	119663	181449	61786	52
0011			1098	186945	146094	415	12	27	1	455	97730	310580	552768	242188	174
0012	A	MIDDLETON	395	43398	28983	112	9	2	.	123	20548	86341	135447	49106	51
0012	B	WINDHAM	582	58275	150865	213	3	15	.	231	54784	98449	207788	109339	53
0012	C	TOWNSEND	354	76110	41887	160	4	2	.	166	38061	145170	232371	89801	54
0012	D	SIMCOE T	126	66705	51570	171	24	13	4	212	58906	89321	202855	113534	57
0012			1457	244488	273305	656	40	32	4	732	172299	419281	778461	361780	215
			2555	431433	419399	1071	52	59	5	1187	270029	729861	1331229	603968	389

NORFOLK COUNTY: MAJOR INDUSTRY GROUPS, 1871

	OBSERV		FORCE		FIXCAP		TOTEMP		SUMPROC		VADD	
	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT	SUM	PERC- ENT
SEC												
5.01	45	11.6	618	24.2	146440	33.9	112	9.4	497605	37.4	126298	20.9
5.04	52	13.4	76	3.0	29805	6.9	119	10.0	105784	7.9	54852	9.1
5.05	11	2.8	57	2.2	9286	2.2	18	1.5	21890	1.6	9779	1.6
5.07	18	4.6	.	.	6332	1.5	45	3.8	26945	2.0	10700	1.8
5.08	114	29.3	1653	64.7	154095	35.7	510	43.0	450291	33.8	233791	38.7
5.09	12	3.1	40	1.6	12520	2.9	46	3.9	33767	2.5	24810	4.1
5.11	4	1.0	.	.	4700	1.1	17	1.4	8600	0.6	4800	0.8
5.13	7	1.8	.	.	6000	1.4	14	1.2	14595	1.1	7095	1.2
5.14	11	2.8	78	3.1	21725	5.0	57	4.8	36538	2.7	29197	4.8
5.15	36	9.3	13	0.5	23335	5.4	128	10.8	68271	5.1	48771	8.1
5.17	7	1.8	7	0.3	2500	0.6	22	1.9	11535	0.9	8860	1.5
5.19	3	0.8	.	.	1600	0.4	4	0.3	3110	0.2	2400	0.4
5.2	5	1.3	.	.	1730	0.4	10	0.8	6545	0.5	4770	0.8
6	3	0.8	13	0.5	1050	0.2	6	0.5	4200	0.3	3720	0.6
8	2	0.5	.	.	80	0.0	2	0.2	405	0.0	375	0.1
10	59	15.2	.	.	10235	2.4	77	6.5	41148	3.1	33750	5.6
ALL	389	100.0	2555	100.0	431433	100.0	1187	100.0	1331229	100.0	603968	100.0

## BASIC SIC CODES FOR NORFOLK COUNTY, 1871

SIC	OBSERV	FORCE	FIXCAP	FLOCAP	EMPMEN	EMPWOM	EMPBOY	EMPGIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
101-P	1	.	500	500	2	0	1	.	3	130	600	1000	400
103	1	.	40	168	1	0	0	.	1	150	100	252	152
104	11	.	10400	9020	18	6	3	.	27	3322	32082	40004	7922
105	21	571	110850	27425	43	1	1	.	45	12960	316205	370434	58529
107	4	.	2350	1000	5	3	3	4	15	2172	8120	14355	6235
109-B	1	8	5000	1000	4	0	0	.	4	1000	1540	4900	3360
109-C	3	14	2000	850	8	0	0	.	8	750	1760	3960	2200
109-D	2	25	15000	7000	7	0	1	.	8	3200	15000	62200	47200
109-S	1	.	300	100	1	0	0	.	1	200	200	500	300
172	12	76	18520	14500	30	0	0	.	30	8642	23100	44212	21112
174	28	.	6540	10000	57	0	3	.	60	15086	16295	38392	22097
179-S	12	.	4745	9000	29	0	0	.	29	6790	11537	23180	11643
182	4	53	8200	2900	7	3	1	.	11	2255	9412	17160	7748
182-W	6	.	86	.	5	1	0	.	6	964	2219	3850	1631
189-W	1	4	1000	100	1	0	0	.	1	200	480	880	400
242	7	.	5550	3950	12	6	0	.	18	4568	8185	15550	7365
243	2	.	50	.	1	3	0	.	4	920	2810	3590	780
244	5	.	122	.	0	9	0	.	9	800	1650	2705	1055
245	1	.	75	100	0	2	0	.	2	200	100	300	200
249-M	3	.	535	1200	0	11	0	1	12	700	3500	4800	1300
251	62	1278	123670	188640	331	1	22	.	354	75400	180401	354258	172157
251-S	28	567	26480	57019	109	2	7	.	118	25551	30568	80900	50332
254	5	7	1750	304	9	0	0	.	9	1365	1384	3220	1836
259	5	.	450	265	6	0	0	.	6	1115	562	2010	1448
259-C	14	1	1745	2071	22	0	1	.	23	4776	1885	9903	8018
261	12	40	12520	14725	41	0	5	.	46	15900	8957	33767	24810
289	4	.	4700	400	12	0	5	.	17	3400	3800	8600	4800
304-T	7	.	6000	7550	14	0	0	.	14	4300	7500	14595	7095
311	8	70	21000	21800	50	0	1	.	51	12800	6674	33050	26376
315-P	3	8	725	530	6	0	0	.	6	2170	667	3488	2821
329	36	13	23335	22720	124	3	1	.	128	29280	19500	68271	48771
351-B	2	3	800	750	8	0	1	.	9	725	200	1920	1720
351-P	1	1	600	100	3	0	0	.	3	1200	125	2000	1875
353	1	3	1000	2000	3	0	0	.	3	1000	2000	6000	4000
358-L	3	.	100	520	7	0	0	.	7	775	350	1615	1265
376	1	.	1000	500	2	0	0	.	2	500	400	1100	700
378-P	2	.	600	800	2	0	0	.	2	450	310	2010	1700
391	1	.	1500	300	2	0	0	.	2	1000	1000	5000	4000
399-B	4	.	230	560	7	1	0	.	8	655	775	1545	770
421-C	3	13	1050	1100	5	0	1	.	6	1140	480	4200	3720
658	2	.	80	70	2	0	0	.	2	325	30	405	375
893	2	.	500	220	3	0	0	.	3	1450	620	2560	1940
896	56	.	9635	7542	71	0	2	.	73	19343	6678	38088	31410
897-G	1	.	100	100	1	0	0	.	1	400	100	500	400
=====	389	2555	431433	419399	1071	52	59	=====	5	270029	729861	1331229	603968



## NORFOLK COUNTY: CHEESE FACTORIES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	C-4	BACON G F ?	CHEESE FACTORY	104	1200		.	3	300	5000	6250	1250
0012	B-1	BECKWITH SETON	CHEESE FACTORY	104	1000		.	5	500	5000	6000	1000
0011	D-2	SMITH JOHN T	CHEESE FACTORY	104	1800		.	80	600	4800	5600	800
0012	C-3	SHEARER WILLIAM R	CHEESE FACTORY	104	1000		.	1	250	4262	4688	426
0012	C-4	COULVER LODER	CHEESE FACTORY	104	1000		.	3	285	3213	4016	803
0011	B-1	FRANKLIN HARVEY	CHEESE FACTORY	104	600		.	1	250	3200	4000	800
0011	C-1	SHEARER DAVID	CHEESE FACTORY	104	500		.	2	300	1987	3000	1013
0012	B-2	CHURCH OSCAR	CHEESE FACTORY	104	500		.	5	411	1720	2640	920
0011	C-3	JOINT STOCK CO	CHEESE FACTORY	104	500		.	1	26	1200	1530	330
0012	C-1	HARRIS WILLIAM	CHEESE FACTORY	104	1500		.	2	200	900	1280	380
0012	C-3	HAZELTON DUNHAM ?	CHEESE FACTORY	104	800		.	1	200	800	1000	200
					-----			-----	-----	-----	-----	-----
					10400		0	27	3322	32082	40004	7922

## NORFOLK COUNTY: GRAIN MILLS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	C-4	CLARK T W/DUNCOMB	GRIST/SAW MILL	105/251	16000	WATER	100	12	4000	64000	84000	20000
0011	D-2	THOMPSON ANDREW	GRIST MILL	105	13000	WATER	40	2	400	30000	33000	3000
0011	C-2	SHAW JOHN	GRIST/FLOUR MILL	105	5000	WATER	16	2	600	22000	29500	7500
0011	C-2	NICHOLSON J	GRIST MILL	105	8800	WATER	20	2	600	22490	26490	4000
0012	D	FORD N C & CO	FLOUR/GRIST MILL	105	10000	WATER	30	4	1200	20000	25000	5000
0012	C-3	BOWLEY & CO	GRIST MILL	105	6000	WATER	20	1	360	20000	22165	2165
0012	C-3	TOMS JOHN	GRIST MILL	105	4000	WATER	20	1	380	18000	20350	2350
0011	C-3	MASSCAR NICHOLAS	GRIST MILL	105	4000	WATER	16	2	480	16500	17900	1400
0011	D-2	ADES ALFRED	GRIST MILL	105	6000	WATER	20	1	330	15000	16500	1500
0012	A-2	SOVEREEN JACOB	GRIST MILL	105	4000	WATER	22	1	300	13255	16331	3076
0011	D-2	WATSON THOMAS	GRIST MILL	105	3000	WATER	30	1	400	14000	15500	1500
0011	C-3	WILSON ABNER	GRIST MILL	105	4000	WATER	24	1	450	14000	15200	1200
0011	D-2	LANG ANDREW	GRIST MILL	105	1500	WATER	25	2	500	8200	10000	1800
0011	A-2	MISNER ANDREW	GRIST MILL	105	2500	WATER	20	1	250	9000	9750	750
0011	A-1	GRIFFITH WILLIAM	GRIST MILL	105	1500	WATER	15	2	500	8250	8250	750
0012	A-2	OWEN ANSEN	GRIST MILL	105	2000	WATER	35	1	250	8000	8250	250
0011	B-1	BACKHOUSE JOHN H	GRIST MILL	105	2000	WATER	.	2	500	5000	6000	1000
0012	A-1	OSTRANDER JOHN	GRIST MILL	105	5000	WATER	30	1	360	2500	3000	500
0012	B-1	LESTER SOLOMON	GRIST MILL	105	6000	WATER	24	3	500	1300	2100	800
0011	C-2	HELTH JAMES	GRIST MILL	105	1050	WATER	24	2	300	1160	1148	-12
0012	C-2	BARBER JOHN	GRIST MILL	105	5500	WATER	40	1	300	4300	.	.
					-----			-----	-----	-----	-----	-----
					110850		571	45	12960	316205	370434	58529

## NORFOLK COUNTY: BEVERAGE MAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	C-2	POTTS & COLMAN	DISTILLERY	109-D	10000	STEAM	15	4	1200	6000	37200	31200
0012	D	FORD N C & CO	DISTILLERY	109-D	5000	WATER	10	4	2000	9000	25000	16000
0012	D	KENT EDWIN P	BREWERY/MALT HOU	109-B/108-M	5000	STEAM	8	4	1000	1540	4900	3360
0011	D-1	SCOTT GEORGE L	CIDER MILL	109-C	700	HORSE	1	2	350	960	2400	1440
0011	D-2	ADES ALFRED	CIDER MILL	109-C	1000	WATER	5	4	300	1000	960	460
0011	D-2	BALCH SIMEON	CIDER MILL	109-C	300	WATER	8	2	100	300	600	300
0012	D	TUNE JAMES	SODA WATER FACTO	109-S	300		.	1	200	200	500	300
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					22300		47	21	5150	18500	71560	53060

## NORFOLK COUNTY: TANNERIES, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	D-1	LAWSON PETER	TANNERY	172	7000	STEAM	10	8	3000	10000	18000	8000
0011	C-2	WILLIAMS JAMES	TANNERY	172	2000	STEAM	15	5	1200	4250	8300	4050
0011	C-2	POTTS & DAWSON	TANNERY	172	2000	STEAM	16	4	1000	3150	6962	3812
0012	B-4	WHITSIDE J & BELL	TANNERY/CURRIER	172	3000	WATER	10	2	600	1900	3000	1100
0011	D-2	DEAN JAMES	TANNERY	172	1600	WATER	14	3	700	1000	2000	1000
0011	A-1	BECKETT SAMUEL	TANNERY	172	800	WATER	8	1	200	800	1200	400
0011	A-1	MARTIN EPHRAIM	TANNERY	172/174	300	HORSE	1	2	600	200	1000	800
0011	B-2	WILSON WILLIAM	TANNERY	172	700	WATER	1	1	360	500	1000	500
0012	D	WESTON RICHARD	TANNERY	172	400	HORSE	1	1	400	400	1000	600
0011	D-3	SNIDER GIDEON	TANNERY	172	200	HORSE	1	1	182	400	700	300
0011	D-2	DOAN E ?	TANNERY	172	400		.	1	200	250	550	300
0011	B-1	OVERPAUGH	TANNERY	172	120	WATER	.	1	200	250	500	250
					18520			76	8642	23100	44212	21112

## NORFOLK COUNTY: BOOTMAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	BALBRICK R A	BOOT/SHOE STORE	174	100		.	4	1040	1200	4000	2800
0012	B-4	ROMAN L H	BOOT/SHOE SHOP	174	100		.	5	1200	1800	3500	1700
0012	D	CARTER HENRY	BOOT/SHOE SHOP	174	400		.	4	1400	1400	2100	2100
0011	B-1	PATIENT GEORGE	BOOT/SHOE SHOP	174	500		.	3	800	1500	3000	1500
0012	D	ANDERSON JAMES	BOOT/SHOE SHOP	174	2000		.	4	1200	1200	3000	1800
0012	D	HARRIS W & J	BOOT/SHOE SHOP	174	600		.	4	936	1040	2500	1460
0011	B-2	FRY JAMES	SHOEMAKER SHOP	174	100		.	2	700	1000	2000	1000
0011	D-1	CAILEY WILLIAM	SHOE SHOP	174	70		.	3	1000	900	2000	1100
0012	C-4	HAGUE THOMAS	BOOT/SHOEMAKER	174	500		.	3	600	800	1872	1072
0012	D	GALLAGHER PATRICK	BOOT/SHOE SHOP	174	100		.	3	750	750	1600	850
0011	C-2	WILLIAMS JAMES	BOOTS/SHOES	174	500		.	3	800	370	1200	830
0011	C-3	SMITH QUARTUS ?	SHOEMAKER SHOP	174	150		.	2	400	500	1200	700
0012	A-2	SCHMIDT FREDERICK	SHOE SHOP	174	200		.	3	400	580	1040	460
0012	B-1	ROCK SOLOMON	SHOEMAKER	174	100		.	1	200	500	1000	500
0012	D	O'SULLIVAN JOHN	SHOE SHOP	174	.		.	1	400	400	1000	600
0011	B-2	MITCHENER AMOS	SHOEMAKER SHOP	174	200		.	2	500	300	800	500
0012	B-3	MARTIN JOHN	SHOE SHOP	174	150		.	1	400	400	800	400
0011	D-1	RYERSE JOHN	SHOE SHOP	174	100		.	1	300	300	700	400
0011	D-1	HARRIS JOSEPH	SHOE SHOP	174	50		.	1	300	300	650	350
0011	B-1	SMITH WILLIAM	BOOT/SHOE SHOP	174	70		.	1	300	75	600	525
0012	C-3	MCGREGOR C	SHOE SHOP	174	20		.	1	250	200	450	250
0011	B-1	BURCH TITUS	BOOT/SHOE SHOP	174	50		.	1	350	100	400	300
0012	A-1	HERRON J C H	BOOT/SHOE SHOP	174	200		.	2	275	125	400	275
0011	A-2	BUNDY GEORGE	SHOEMAKING	174	120		.	1	200	200	300	100
0011	D-2	HENDERSON ARTHUR	SHOE SHOP	174	50		.	1	120	150	300	150
0012	C-3	BYARD ROSS	SHOE SHOP	174	50		.	1	175	100	300	200
0011	D-2	KNIFFEN HENRY	SHOE SHOP	174	30		.	1	.	75	160	85
0012	A-1	ROBINS WILLIAM	SHOE SHOP	174	30		.	1	90	30	120	90
					6540			0	15086	16295	38392	22097

## NORFOLK COUNTY: SADDLERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	BROWN	SADDLE/HARNESS	179-S	1000			7	1860	4500	8000	3500
0012	C-4	LUNDY S & E H	HARNESSMAKER/SAD	179-S/179-T	1000			4	800	1800	4375	2575
0012	D	NEWELL	PETER P	179-S	50			3	900	1000	2000	1000
0012	A-2	WHITESIDE JAMES	HARNESS SHOP	179-S	150			2	600	1099	1625	526
0011	C-2	HEWITT GEORGE	HARNESSMAKER	179-S	300			2	600	500	1350	850
0012	D	STINHOFF ANDREW	HARNESS SHOP	179-S	20			3	500	500	1300	800
0012	B-1	MCQUEEN ALEXANDER	SADDLER/HARNESSM	179-S	200			1	300	500	1080	580
0011	D-1	SIMONS GEORGE	HARNESS SHOP	179-S	200			1	300	408	1000	592
0012	C-4	CHURCH JAMES Y	HARNESSMAKER	179-S	800			2	400	600	1000	400
0012	B-3	MAGER CHARLES	HARNESS SHOP	179-S	500			1	240	300	600	300
0011	D-1	FALMSBY LEONARD	HARNESS SHOP	179-S	300			2	200	180	450	270
0012	B-3	HART HAMLET	COLLAR SHOP	179-S	225			1	90	150	400	250
					4745		0	29	6790	11537	23180	11643

## NORFOLK COUNTY: TEXTILE PRODUCERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	D-2	BROOK R & SON	WOOLEN FACTORY	182	3000	WATER	15	7	1500	3000	6000	3000
0011	B-2	DIBBLE JAMES H	WOOLEN MILL	182	1200	WATER	10	2	275	3000	5000	2000
0011	C-3	PARK JOHN	CLOTH FACTORY	182	1500	WATER	12	1	180	1500	3760	2260
0012	A-2	SOVEREIGN JACOB	WOOLEN MILL	182	2500	WATER	16	1	300	1912	2400	488
0012	A-2	WANTLE GEORGE	WEAVING LOOM	182-W	14			1	250	600	1000	400
0012	A-2	HARMAN FREDERICK	WEAVING LOOM	182-W	13			1	250	600	1000	400
0011	C-2	GEFFIN GEORGE	WOOL CARDING	182-W	1000	WATER	4	1	200	480	880	400
0012	C-3	CULVER TIMOTHY	WEAVING FACTORY	182-W	35			1	100	450	600	150
0012	A-2	SHAWER WILLIAM	WEAVER LOOM	182-W	12			1	120	280	475	195
0012	A-2	ZIMMER WILLIAM	WEAVER LOOM	182-W	12			1	100	139	475	336
0012	A-1	THIRSTON CATHARIN	WEAVER SHOP	182-W				1	144	150	300	
					9286		57	18	3419	12111	21890	9779

## NORFOLK COUNTY: CLOTHING SHOPS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	DURWARD	CLOTHIER	242	3000			6	2153	4000	8000	4000
0012	A-2	HULLARD JOHN	TAILOR SHOP	243	50			3	800	2750	3370	620
0012	D	MATHER ELISHA	MERCHANT TAILOR	242	400			2	750	1560	2500	940
0012	D	HODGSON ROBERT	TAILOR	242	1500			3	300	1200	2000	800
0012	D	CARNOCHAN MISS	MILLINERY/DRESSM	249-M	100			6	200	1600	2000	400
0012	D	HENDRY OSCAR	MILLINERY/DRESSM	249-M	35			3	400	1400	2000	600
0012	D	TOWNLEY THOMAS	MERCHANT TAILOR	242	100			2	315	1000	1500	500
0011	B-1	ROSE MARIA	MILLINERY SHOP	249-M	400			3	100	500	800	300
0012	D	CHURCH MRS ISA	DRESSMAKER/MILLI	244/249-M	40			3	200	500	800	300
0011	D-1	PETRE JOHN	TAILOR SHOP	242	100			2	500	700	150	550
0012	D	DYER MISS JANE	DRESSMAKING	244	30			3	200	400	700	300
0011	D-1	MUDFORD CHARLES	TAILOR SHOP	242	50			2	400	200	600	400
0012	D	LONG MISS A E	DRESSMAKING	244	20			1	150	300	500	200
0012	D	ANDREWS CAROLINE	DRESSMAKER	244				1	200	200	400	200
0012	A-2	WILSON ADALINE	MILLINER/DRESSMA	244/243	32			1	50	250	305	55
0012	D	O'CARR MRS E	CHILDRENS CLOTHI	245	75			2	200	100	300	200
0011	D-1	STEVENSON ELENOR	TAILOR SHOP	242	400			1	150	75	250	175
0012	A-1	CROSSETT ISABELLE	SEAMSTRESS SHOP	243				1	120	60	220	160
					6332		0	45	7188	16245	26945	10700



## NORFOLK COUNTY: SAWMILLS AND WOOD PROCESSING, 1871

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	B-2	LEWIS LEVI	SAW MILL	251/251-S	6000	STEAM	40	25	7800	14000	33000	19000
0011	D-2	THOMPSON ANDREW	SAW MILL	251	600	WATER	20	0	60	20000	32000	12000
0012	A-2	RENT GEORGE	SAW MILL	251	1500	WATER	18	7	1100	24000	30000	6000
0011	C-3	POTTS J E	SAW MILL	251	6000	STEAM	40	30	8000	9000	26200	17200
0012	B-2	HULL JAMES	SAW MILL	251/251-S	6000	STEAM	40	18	5000	12000	18250	6250
0012	B-2	ROBERTSON JAMES	SAW MILL	251	800	STEAM	25	4	1200	10000	18000	8000
0011	C-1	MCCALL A & T	SAW MILL	251	20000	STEAM	40	28	6000	6000	15000	9000
0012	B-3	GIBSON WM & D	SAW MILL	251	5000	STEAM	50	18	3000	6000	14000	8000
0012	B-1	WRIGHT JAMES	SAW MILL	251/251-S	5000	WATER	60	12	3000	4000	10500	6500
0011	B-2	MCBURNIE & MCCALL	SAW MILL	251	10000	STEAM	30	18	3000	4000	10000	6000
0011	B-3	CONSER RICHARD	SHINGLE MANUFACT	251-S	2000	STEAM	12	12	4000	3600	10000	6400
0012	B-2	BARTHOLOMEW HENRY	SAW MILL	251/251-S	2000	STEAM	30	6	2000	6000	9700	3700
0012	A-1	SHAWER ASA	SAW MILL	251	1000	STEAM	12	6	325	6000	3600	3600
0012	B-1	MUMHA SAMUEL ?	SHINGLE MILL	251-S	1000	STEAM	16	7	1000	6680	8680	2000
0012	B-1	MCPHERSON JOHN	SAW MILL	251/251-S	2000	STEAM	25	9	3000	3000	8150	5150
0011	A-1	GARNHAM SHERIFF	SAW MILL	251	1200	STEAM	14	7	840	4000	8000	4000
0011	C-1	MCCALL WILLIAM	SAW MILL	251	1800	WATER	20	14	3000	3000	8000	5000
0012	A-1	OSTRANDER JOHN	SAW MILL	251	5000	WATER	30	3	1080	3200	7000	3800
0012	A-1	POTTER E A	SAW MILL	251/251-S	1500	STEAM	20	6	1400	3000	6500	3500
0011	B-3	BUTLER PATRICK &	SHINGLE FACTORY	251-S	1500	WATER	15	3	1500	2100	6000	3900
0012	B-2	FREEMAN ALBERT	SHINGLE FACTORY	251-S	1300	STEAM	16	6	1800	450	6000	5550
0012	B-4	WOOD ROBERT	SAW MILL	251/251-S	1000	STEAM	30	8	2300	3000	6000	3000
0012	A-1	COWAN JAMES	SAW MILL	251	3000	WATER	12	3	700	3500	5600	2100
0011	B-3	MCBURNIE	SAW MILL	251	1500	WATER	20	3	1000	2500	4600	2100
0012	B-1	DOANS MATHIE	SAW MILL	251	2000	STEAM	16	6	1800	2800	4600	1800
0011	B-3	HENDERSON ARCHIB	SAW MILL	251	2000	WATER	30	4	832	2250	4597	2347
0012	B-1	MACSHONE ARTHUR ?	SHINGLE MILL	251-S	100	WATER	11	6	1800	1348	4368	3020
0012	B-4	HINKS JAMES	SAW MILL	251	600	WATER	12	4	640	1800	4200	2400
0011	B-3	JENKINS THOMAS	SHINGLE FACTORY	251-S	600	WATER	15	3	990	1250	4000	2750
0011	C-1	HOVER GEORGE	BLACKSMITH/SAW M	251	1620	STEAM	20	14	2300	1626	4000	2374
0011	C-1	MCCALL FRANK	SHINGLE MILL	251-S	1000	STEAM	20	6	800	1000	4000	3000
0012	B-1	LESTER WILLIAM	SAW MILL	251	2000	WATER	50	6	1500	2000	4000	2000
0012	B-3	WHITE WM R	SHINGLE MILL	251-S	500	STEAM	.	4	1800	1500	4000	2500
0012	C-1	TAYLOR EDWARD	SHINGLE FACTORY	251-S	1200	STEAM	13	6	1600	800	4000	3200
0012	B-2	ROBERTSON JAMES	SHINGLE FACTORY	251-S	1000	W/S	25	10	2000	2400	3840	1440
0012	B-1	ROOT AUGUSTUS	SAW MILL	251/251-S	1000	STEAM	25	6	1440	875	3705	2830
0012	B-2	FIELDS JAMES	SHINGLE FACTORY	251-S	1200	STEAM	16	5	1100	900	3600	2700
0012	A-2	WHITESIDE JAMES	SAW MILL	251	1500	WATER	30	4	1000	1600	3200	1600
0012	A-2	HENDERSON ARCHIB	SHINGLE FACTORY	251-S	1500	WATER	16	3	600	700	3000	2300
0011	B-3	GRAYDON THOMAS &	SHINGLE FACTORY	251-S	3500	STEAM	16	5	1200	800	3000	2200
0012	A-1	EDGEWORTH THOMAS	SAW MILL	251/251-S	1000	STEAM	15	9	1000	1500	3000	1500
0012	C-1	WILSON JAMES	SAW MILL	251	1200	STEAM	15	4	800	1000	3000	2000
0012	A-2	GRIFFIN JACOB	SAW MILL	251	400	WATER	18	1	300	2400	2800	400
0012	A-2	OWEN ANSEN	SAW MILL	251	2000	WATER	15	2	625	1200	2800	1600
0012	A-1	MABER BENJAMIN	SAW/SHINGLE MILL	251/251-S	.	STEAM	40	4	1200	1160	2464	1304
0011	D-3	LONG ROBERT	SAW MILL	251	2000	WATER	20	4	528	1200	2200	1000
0012	C-1	PERNEY DAVID	SHINGLE FACTORY	251-S	500	STEAM	8	2	600	1000	2200	1200
0011	B-2	MITCHENER JOSEPH	SAW MILL	251	900	WATER	30	3	500	2000	2000	800
0012	B-4	NORMANS DANIEL	SAW MILL	251	1000	STEAM	20	5	500	900	2000	1100
0012	C-1	CHAMBERS LEONARD	SHINGLE FACTORY	251-S	1000	STEAM	15	2	600	500	2000	1500
0012	C-4	ROCK THOMAS	PLANING MILL	254	1200	STEAM	6	3	600	1200	2000	800
0011	A-1	FORSYTH THOMAS	SAW MILL	251	500	WATER	12	3	312	919	1938	1019
0012	A-1	DOYLE J W	SHINGLE FACTORY	251-S	1500	STEAM	16	5	900	900	1800	900
0012	A-2	RENT GEORGE	SHINGLE MILL	251-S	500	WATER	12	3	214	1300	214	500
0012	A-2	WHITESIDE JAMES	SHINGLE MILL	251-S	500	WATER	12	1	600	900	1800	900
0012	C-1	BEEMER WILLIAM	COOPER SHOP	259-C	100	WATER	.	5	1000	150	1800	1650
0011	B-2	HALL & DAVIS	SAW MILL	251	1200	WATER	18	3	372	625	1750	1125
0012	C-4	SMITH GEORGE	SAW/SHINGLE MILL	251/251-S	2000	WATER	10	2	156	1700	1700	.
0012	A-1	MESTON WILLIAM	SAW MILL	251	1500	WATER	20	4	300	900	1620	720

## NORFOLK COUNTY: SAWMILLS AND WOOD PROCESSING, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	B-2	MYERS JOHN	SAW MILL	251	1000	WATER	20	1	350	600	1600	1000
0012	C-1	CHAMBOIS ISAAC	SAW MILL	251	2000	STEAM	18	2	300	800	1600	800
0011	C-3	CARROW JOHN	COOPER SHOP	259-C	300		.	3	600	300	1503	1203
0012	C-1	CHART HENRY	COOPER SHOP	259-C	100		.	2	1000	350	1500	1150
0011	B-3	HAMILTON R ?	SAW MILL	251	2000	WATER	10	2	300	400	1400	1000
0011	C-1	TART MARTIN	COOPER SHOP	259-C	100		.	3	300	200	1250	1050
0012	B-4	BURHAM AUGUSTUS	SHINGLE FACTORY	251-S	1000	STEAM	10	4	432	250	1200	1000
0012	C-1	ROBERTS GEORGE	SAW MILL	251	500	STEAM	16	2	100	600	1200	600
0012	C-1	DUNCOMB ALEXANDER	SAW MILL	251	2700	WATER	10	4	500	600	1200	600
0011	B-3	CATTLE G & E	SHINGLE FACTORY	251-S	800	WATER	15	2	300	260	1092	832
0011	A-1	HILL JEREMIAH	SAW MILL	251/251-S	700	WATER	12	2	300	400	1090	690
0011	A-1	MOOR WILLIAM	SHINGLE MILL	251-S	200	WATER	10	2	270	630	1080	450
0012	D	THOMSON WALTER	CARPENTER SHOP	259	100		.	2	600	250	1080	830
0012	C-2	WILLCOX EDWARD L	SAW MILL	251	1000	STEAM	25	1	400	400	1024	624
0011	B-2	ABBOTT DANIEL	SAW MILL	251	500	WATER	25	2	340	600	1000	400
0011	B-2	RHORER WILLIAM	SHINGLE MILL	251-S	500	WATER	17	6	650	250	1000	750
0011	D-3	ALDERSON WM M	SHINGLE MILL	251-S	1000	STEAM	10	5	500	500	1000	500
0011	A-1	MOSHEN JOHN	SAW MILL	251	600	STEAM	12	3	360	450	950	500
0011	C-2	WHITE CALVIN	SAW MILL	251	400	WATER	15	1	200	305	820	515
0011	C-3	WILSON ABNER	SAW MILL	251	800	WATER	12	1	140	200	800	600
0011	D-2	ADES ALFRED	SAW MILL	251	1000	WATER	10	2	300	500	800	300
0011	A-1	TRUMAN JAMES	SAW MILL	251	500	WATER	10	2	240	306	700	394
0012	C-2	WYMER DAVID	SAW MILL	251	600	WATER	.	1	240	400	700	300
0011	D-2	ANDERSON JOHN B	SAW MILL	251	600	WATER	15	3	200	350	600	250
0012	B-1	KITCHEN AARON	COOPER SHOP	259-C	100		.	1	120	279	600	321
0012	D	LEA GEORGE	CARPENTER SHOP	254	50		.	2	400	100	600	500
0011	A-1	FRANCISCO WILLIAM	SAW MILL	251	500	WATER	10	2	300	200	500	300
0011	A-1	SAFFORD MILO	SAW MILL	251	400	WATER	10	1	150	300	500	200
0012	B-1	DALLY GEORGE	COOPER SHOP	259-C	500		.	0	200	150	500	350
0012	B-4	SMITH GEORGE	COOPER SHOP	259-C	10		.	1	200	80	500	420
0011	B-3	SHONP CHRISTIAN ?	SAW MILL	251	600	WATER	8	2	80	250	450	200
0012	A-1	MILLS JOHN W	HOOP FACTORY	251	.		.	2	240	30	450	420
0012	B-4	LAPIER PETER	COOPER SHOP	259-C	50		.	1	300	50	450	400
0011	B-3	EVINS JANE	SHINGLE MACHINE	251-S	200	WATER	6	1	25	100	440	340
0012	A-2	O'NEILL FRANCIS	SHINGLE MILL	251-S	180	WATER	10	4	120	280	425	145
0012	A-2	WINSLOW CLARK	CARPENTER SHOP	259	200		.	1	175	200	425	225
0011	B-1	LAYMOND	COOPER SHOP	259-C	100	HORSE	1	1	200	60	400	340
0011	C-3	PARK JOHN	SAW MILL	251	500	WATER	12	2	180	150	400	250
0011	C-3	DISBROW IRA	COOPER SHOP	259-C	150		.	1	250	66	375	309
0012	B-4	ALMAS M A	COOPER SHOP	259-C	80		.	2	200	50	350	300
0011	A-1	DAVIS GEORGE	JOINER SHOP	254	150	HORSE	1	2	200	40	310	270
0012	B-4	HENDERSON JOHN	SAW MILL	251	400	WATER	8	1	150	150	300	150
0011	A-2	LAYCOCK JOHN	SAW/SHINGLE MILL	251/251-S	1000	STEAM	20	2	60	130	250	120
0011	C-3	FREELAND HARTMAN	COOPER SHOP	259-C	25		.	1	125	60	250	190
0011	C-3	VAN BROCKLIN F	JOINER SHOP	259	50		.	1	175	190	250	190
0012	C-3	MASECAR HORACE	SAW MILL	251	50	WATER	8	1	60	125	250	125
0012	B-4	BOWEN JASON	SHINGLE FACTORY	251-S	300	WATER	8	2	60	40	245	205
0012	B-4	WHITEHEAD JAMES	COOPER SHOP	259-C	50		.	1	156	40	225	185
0011	C-3	BLOOMFIELD JOHN	COOPER SHOP	259-C	80		.	1	125	50	200	150
0011	C-3	BACON ROBERT T	JOINER SHOP	259	50		.	1	125	40	200	160
0011	D-2	ANDERSON JOHN B	SHINGLE FACTORY	251-S	400	WATER	15	1	50	100	200	100
0012	B-3	GARNER C F	CARPENTER/JOINER	254	200		.	1	90	20	160	140
0011	A-2	PIERCE THOMAS	CARPENTER SHOP	254/261	150		.	1	75	24	150	126
0011	B-3	MCCUTHEN	SHINGLE FACTORY	251-S	1500	STEAM	12	2	40	30	80	50
0011	A-2	PIERCE WARREN	CARPENTER SHOP	259	50		.	1	40	12	55	43
										154095	1653	510
										108207	450291	233791
										214800	55	43



NORFOLK COUNTY: FURNITURE SHOPS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	JACKSON GEORGE	FURNITURE/SASHES	261/254	6000	STEAM	15	21	10000	6000	20000	14000
0012	D	MISNER & KENDALL	CABINETS/UNDERSTA	261/258	2575	STEAM	15	8	2000	645	3300	2655
0012	A-2	WILKINSON W A	CABINET SHOP	261	800	HORSE	1	2	600	180	2500	2320
0011	D-1	HOFFMAN LEWIS	CABINET SHOP	261	125	HORSE	1	2	600	100	2000	1900
0012	C-4	BARBER JOHN L	CABINETMAKER	261	1500	STEAM	6	3	700	1000	2000	1000
0011	C-2	KERD ARCHIBALD	CABINET FACTORY	261	600	HORSE	1	2	600	700	1600	900
0012	B-1	PUGSLEY JOSIAH	CABINET SHOP	261	100		1	1	450	106	800	694
0011	C-1	SMAGE A ?	CABINET SHOP	261	150	HORSE	1	2	200	80	500	420
0011	D-1	BUGNER MILLER ?	CABINET SHOP	261	50		1	1	300	40	400	360
0012	A-2	CHURCH JOSEPH	CABINET SHOP	261	500		1	2	250	60	400	340
0012	A-1	CLOUSE JOHN L	CHAIR FACTORY	261	20		1	1	150	30	192	162
0011	D-3	MISNER JOSEPH	CHAIR FACTORY	261	100		1	1	50	16	75	59
					12520				15900	8957	33767	24810

NORFOLK COUNTY: TINSMITHS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	C-2	MANNHOSS L M	TIN SHOP	304-T	1200		1	3	1000	3000	5000	2000
0011	D-1	ANSLEY OZIAS	TIN SHOP	304-T	1000		1	1	500	600	2000	1400
0011	B-1	DEDRICK ABRAM	TIN SHOP	304-T	550		1	1	400	1000	1600	600
0012	D	MOORE ROBERT	TIN SHOP	304-T	1000		1	2	650	1000	1600	600
0012	D	COOK A & C M	TIN SHOP	304-T	750		1	2	500	800	1560	760
0011	B-1	ELLIS D J	TIN SHOP	304-T	500		1	2	600	600	1500	900
0012	D	CHADWICK SAMUEL	TIN SHOP	304-T	1000		1	3	650	500	1335	835
					6000				4300	7500	14595	7095

NORFOLK COUNTY: MACHINERY MAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	C-4	GREEN J W & N	FOUNDRY/MACHINE	311/315	12000	STEAM	15	32	7000	3000	20000	17000
0012	D	POLLEY & MADDEN	MACHINES/PLOUGHM	311	5000	STEAM	8	7	2700	1540	4300	2760
0011	D-3	MATTHEWS GEORGE	THRESHING/REPAIR	311	1600	HORSE	10	4	1600	850	2500	1650
0012	D	MCDOWELL JAMES M	FANNING MILL FCY	311	1000	STEAM	12	1	400	364	2200	1836
0012	C-2	SMITH STAFFORD	BLACKSMITH	311	500		1	2	350	200	1800	1600
0012	A-2	DEWITT JONATHAN	PUMP FACTORY	315-P	125		1	2	600	335	1762	1427
0012	C-1	PROCTOR GEORGE B	PLANING/TURNING	315-P/261	500	STEAM	8	2	1320	300	1326	1026
0012	A-2	MEREDITH HENRY	STUMP MACHINE MF	311	200	STEAM	5	1	250	460	1200	740
0011	B-1	BECKER ISAAC	FOUNDRY	311	100	STEAM	15	3	400	60	600	540
0012	A-2	WARD WM J	FOUNDRY	311	600	STEAM	5	1	100	200	450	250
0012	A-1	WILLIAMS ISRAEL	PUMP FACTORY	315-P	100		1	2	250	32	400	368
					21725				14970	7341	36538	29197



## NORFOLK COUNTY: CARRIAGE AND WAGON MAKERS, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	AUSTIN & SCOTT	CARRIAGE FACTORY	329	6000	STEAM	12	25	6000	3950	11500	7550
0012	D	DUNKIN JOHN	CARRIAGE FACTORY	329	2000		.	10	3450	2100	6100	4000
0012	C-3	AUSTIN EDWARD	BLACKSMITH/CARRI	329	700		.	6	1600	90	6000	5910
0012	C-1	LUTES WILLIAM	CARRIAGE SHOP	329	2000		.	11	2000	1400	3500	2100
0011	C-1	HACKETT J & E	CARRIAGEMAKER	329	400		.	5	700	1000	3000	2000
0012	C-4	HERRON MORRIS O	BLACKSMITH/WAGON	329	.		.	4	700	1800	2800	1000
0011	D-1	GILLES THOMAS	WAGON SHOP	329	2000	HORSE	1	4	1250	609	2671	2062
0012	C-4	CHRISTIES EDMUND	CARRIAGE PAINTER	329	500		.	3	600	800	2200	1400
0011	B-1	CROSBY CHARLES	CARRIAGE/WAGON S	329	1000		.	3	800	250	2000	1750
0011	D-3	ANDERSON ARTHUR	WAGON SHOP	329	400		.	3	1100	325	2000	1675
0012	B-1	GRAY JOHN	BLACKSMITH	329	200		.	1	400	155	2000	1845
0012	C-4	KIMBEL JOHN	BLACKSMITH/BUGGI	329	800		.	2	500	1200	2000	800
0011	C-3	DOWSWELL JOHN	CARRIAGE SHOP	329	300		.	2	650	1060	1850	790
0012	B-1	SNOW NICHOLAS	WAGON/CARRIAGEMA	329	.		.	3	720	400	1800	1400
0012	C-4	DEAN ADAM	BLACKSMITH/WAGON	329	800		.	2	800	800	1800	1000
0012	C-1	YEATMAN WILLIAM	WAGON SHOP	329	400		.	2	600	160	1700	1540
0012	B-3	SILVERTHORN WILLI	BLACKSMITH/WAGON	329/896	1000		.	4	800	600	1600	1000
0012	D	COATES THOMAS	CARRIAGE FCY/REP	329	350		.	1	600	350	1500	1150
0012	A-2	CROZIER JAMES	BLACKSMITH FORGE	329	300		.	2	380	200	1270	1070
0011	B-1	BAKER JOHN	BLACKSMITH/CARRI	329	400		.	2	320	185	1200	1015
0012	A-2	HILLIKER HENRY	WAGONMAKER	329	450		.	2	400	48	1100	1052
0011	B-1	MASON JOHN	CARRIAGE/WAGON S	329	300		.	2	600	220	1000	780
0011	B-2	CRISTMAS GEORGE	WAGONMAKER	329	300		.	1	350	150	1000	850
0012	C-3	SMITH WILLIAM	WAGON SHOP	329	200		.	1	650	150	1000	850
0011	B-1	JOSEPH OAKS	WAGON SHOP	329	100		.	1	350	500	800	300
0011	A-2	WILSON THOMAS	WAGON MAKING	329	500		.	14	500	200	700	500
0012	A-2	GILENO CHARLES	BLACKSMITH FORGE	329	500		.	1	400	200	676	476
0012	A-2	SANDERSON JOHN	WAGON SHOP	329	500		.	1	200	50	600	550
0012	A-2	MERO JOHN	WAGONMAKER	329	140		.	1	400	93	600	507
0012	C-1	MURRY JOHN	WAGONS/BLACKSMIT	329/311	100		.	2	400	120	600	480
0012	C-1	LYN JOSEPH	WAGON SHOP	329	50		.	1	400	50	560	510
0011	A-1	PAYNE EPHRAIM	WAGON SHOP	329	150		.	1	300	15	400	385
0012	B-3	COATS GARY	WAGON SHOP	329	300		.	1	90	140	240	100
0011	C-3	SCHUELL CHARLES	WAGON SHOP	329	40		.	1	125	50	200	150
0011	B-3	MARSHALL EDMUND	WAGON SHOP	329	100		.	2	95	40	180	140
0011	A-2	MCDERMAND JAMES	SLEIGH/HARROW MF	329/311	55		.	1	50	40	124	84
					23335				29280	19500	68271	48771
						13	128					

CDID	CED	PROPRIOR	TYPEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	D-1	STALKER WILLIAM	BLACKSMITH SHOP	896	500	.	.	3	1500	358	2458	2100
0012	D	ADAMS W H	BLACKSMITH FORGE	896	300	.	.	2	750	500	2000	1500
0012	C-1	KITCHEN DAVID	BLACKSMITH	896	150	.	.	2	300	250	1500	1250
0012	B-2	HAGERMAN JAMES	BLACKSMITH FORGE	896	200	.	.	1	1200	200	1200	1000
0012	C-2	WYMER JAMES	BLACKSMITH SHOP	896	200	.	.	1	250	500	1200	700
0012	B-2	AREY HENRY	BLACKSMITH FORGE	896	300	.	.	1	400	150	1080	930
0011	D-1	HUSTED GEORGE	BLACKSMITH SHOP	896	100	.	.	2	620	112	1000	888
0011	D-1	TURNER WILLIAM	BLACKSMITH SHOP	896	250	.	.	1	600	70	1000	930
0012	A-1	HAMINCK BERNARD	BLACKSMITH FORGE	896	500	.	.	2	120	30	1000	970
0012	C-1	BUSLING DAVID	BLACKSMITH SHOP	896	100	.	.	3	800	60	1000	940
0011	B-1	RICHARDSON RICHAR	BLACKSMITH SHOP	896	400	.	.	3	550	210	900	690
0011	B-1	GORDON THOMAS	BLACKSMITH FORGE	896	150	.	.	2	500	100	900	800
0011	B-2	HENRY TERRY	BLACKSMITH SHOP	896	150	.	.	1	375	40	800	760
0011	B-3	SULERAN JAMES	BLACKSMITH SHOP	896	100	.	.	2	428	172	800	628
0012	B-2	BOWMAN FRANKLIN	BLACKSMITH FORGE	896	200	.	.	1	240	200	800	700
0012	B-3	WILSON ASA	BLACKSMITH FORGE	896	200	.	.	1	300	100	800	700
0012	D	MASTERTON WILLIAM	BLACKSMITH FORGE	896	140	.	.	2	600	170	800	630
0011	B-3	WILSON LEWIS B	BLACKSMITH SHOP	896	200	.	.	1	400	100	750	650
0011	D-1	SMITH JOHN	BLACKSMITH SHOP	896	50	.	.	1	375	195	700	505
0012	B-1	WATTS HENRY	BLACKSMITH/JOBBI	896	.	.	.	1	300	250	700	450
0012	C-1	CABLE JOHN	BLACKSMITH FORGE	896	115	.	.	2	600	80	700	620
0012	D	MURRAY ALEXAND	BLACKSMITH FORGE	896	200	.	.	1	400	100	700	600
0011	A-1	SMITH PHILIP	BLACKSMITH SHOP	896	150	.	.	1	360	200	600	400
0011	B-1	FERO JOHN	BLACKSMITH FORGE	896	60	.	.	1	400	100	600	500
0011	C-1	SMITH RICHARD	BLACKSMITH SHOP	896	120	.	.	2	100	60	600	540
0011	C-1	BROWN THOMAS	BLACKSMITH SHOP	896	120	.	.	2	100	60	600	540
0011	C-2	BRANDOW ABRAHAM	BLACKSMITH	896	265	.	.	1	300	40	600	560
0011	C-3	REID WILLIS R	BLACKSMITH SHOP	896	150	.	.	1	300	50	600	550
0011	C-3	WILSON JAMES H	BLACKSMITH SHOP	896	150	.	.	1	300	250	600	350
0011	C-3	HALIDAY DAVID	BLACKSMITH SHOP	896	150	.	.	1	300	120	600	480
0011	D-2	LEWON WILLIAM	BLACKSMITH SHOP	896	200	.	.	1	350	150	600	450
0012	B-2	LAWRENCE WILLIAM	BLACKSMITH FORGE	896	400	.	.	1	240	100	600	500
0012	D	DRAPER GEORGE	BLACKSMITH FORGE	896	100	.	.	1	400	100	600	500
0012	D	AUSTIN JOHN S	BLACKSMITH FORGE	896	50	.	.	1	400	100	600	500
0011	A-2	SAUCH ALFRED	BLACKSMITH FORGE	896	200	.	.	1	300	110	550	440
0011	A-2	BELL IRA	BLACKSMITH FORGE	896	200	.	.	1	400	40	500	460
0011	A-2	FICK WILLIAM	BLACKSMITH FORGE	896	100	.	.	1	150	24	500	476
0011	B-2	SHERMAN LUIS B	BLACKSMITH SHOP	896	100	.	.	1	375	50	500	450
0011	C-2	LEE JAMES	BLACKSMITH	896	65	.	.	1	300	20	500	480
0012	B-4	WINTENUTE JAMES ?	BLACKSMITH SHOP	896	60	.	.	1	200	200	500	300
0012	C-3	CULVER OLIVER	BLACKSMITH SHOP	896	200	.	.	1	365	80	500	420
0011	B-1	OSBURN DAVID	BLACKSMITH FORGE	896	50	.	.	1	300	100	400	300
0011	D-3	RONDIR ROBERT ?	BLACKSMITH SHOP	896	40	.	.	1	200	40	400	360
0012	B-2	COLE EDWARD	BLACKSMITH FORGE	896	50	.	.	1	240	16	375	359
0011	A-2	BECKER WILLIAM	BLACKSMITH SHOP	896	100	.	.	1	250	325	365	325
0011	D-1	JARVIS HIRAM	BLACKSMITH SHOP	896	100	.	.	1	180	80	360	280
0012	D	CURTISS JEREMIA	BLACKSMITH FORGE	896	20	.	.	1	300	50	350	300
0011	A-2	STEPHENS WILLIAM	BLACKSMITH FORGE	896	100	.	.	1	225	25	325	300
0011	B-2	ADAMS JOSEPH	BLACKSMITH SHOP	896	100	.	.	1	175	25	300	275
0011	C-3	HALIDAY ROBERT	BLACKSMITH SHOP	896	250	.	.	1	140	70	300	230
0011	C-3	STEWART NOAH	BLACKSMITH SHOP	896	100	.	.	1	200	50	300	250
0012	A-2	MARSHALL HARVEY	BLACKSMITH FORGE	896	600	.	.	1	150	100	300	200
0012	C-3	LEMON JAMES	BLACKSMITH SHOP	896	200	.	.	2	200	100	300	200
0011	B-3	MILLAN RICHARD	BLACKSMITH SHOP	896	100	.	.	1	100	21	200	179
0011	D-1	ANDERSON JAMES E	BLACKSMITH SHOP	896	100	.	.	1	60	60	200	140
0012	C-3	WHITING WILLIAM	BLACKSMITH SHOP	896	80	.	.	1	200	100	75	-25
					9635	0	73	19343	6678	38088	31410	

## NORFOLK COUNTY: FIRMS WITH 25+ HP INANIMATE POWER, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD	
0012	C-4	CLARK T W/DUNCOMB	GRIST/SAW MILL	105/251	16000	WATER	100	12	4000	64000	84000	20000	
0012	B-1	WRIGHT JAMES	SAW MILL	251/251-S	5000	WATER	60	12	3000	4000	10500	6500	
0012	B-1	LESTER WILLIAM	SAW MILL	251	2000	WATER	50	6	1500	2000	4000	2000	
0012	B-3	GIBSON WM & D	SAW MILL	251	5000	STEAM	50	18	3000	6000	14000	8000	
0011	C-1	MCCALL A & T	SAW MILL	251	20000	STEAM	40	28	6000	6000	15000	9000	
0011	C-3	POTTS J E	SAW MILL	251	6000	STEAM	40	30	8000	9000	26200	17200	
0011	D-2	THOMPSON ANDREW	GRIST MILL	105	13000	STEAM	40	2	400	30000	33000	3000	
0012	A-1	MABER BENJAMIN	SAW/SHINGLE MILL	251/251-S	6000	STEAM	40	4	1200	1160	2464	1304	
0012	B-2	LEWIS LEVI	SAW MILL	251/251-S	6000	STEAM	40	25	7800	14000	33000	19000	
0012	B-2	HULL JAMES	SAW MILL	251/251-S	6000	STEAM	40	18	5000	12000	18250	6250	
0012	C-2	BARBER JOHN	GRIST MILL	105	5500	WATER	40	1	300	4300	.	.	
0012	A-2	OWEN ANSEN	GRIST MILL	105	2000	WATER	35	1	250	8000	8250	250	
0011	B-2	MCBURNIE & MCCALL	SAW MILL	251	10000	STEAM	30	18	3000	4000	10000	6000	
0011	B-2	MITCHENER JOSEPH	SAW MILL	251	900	WATER	30	3	500	1200	2000	800	
0011	B-3	HENDERSON ARCHIB	SAW MILL	251	2000	WATER	30	4	832	2250	4597	2347	
0011	D-2	WATSON THOMAS	GRIST MILL	105	3000	WATER	30	1	400	14000	15500	1500	
0012	A-1	OSTRANDER JOHN	GRIST MILL	105	5000	WATER	30	1	360	2500	3000	500	
0012	A-1	OSTRANDER JOHN	SAW MILL	251	5000	WATER	30	3	1080	3200	7000	3800	
0012	A-2	WHITESIDE JAMES	SAW MILL	251	1500	WATER	30	4	1000	1600	3200	1600	
0012	B-2	BARTHOLOMEW HENRY	SAW MILL	251/251-S	2000	STEAM	30	6	2000	6000	9700	3700	
0012	B-4	WOOD ROBERT	SAW MILL	251/251-S	1000	STEAM	30	8	2300	3000	6000	3000	
0012	D	FORD N C & CO	FLOUR/GRIST MILL	105	10000	WATER	30	4	1200	20000	25000	5000	
0011	B-2	ABBOTT DANIEL	SAW MILL	251	500	WATER	25	2	340	600	1000	400	
0011	D-2	LANG ANDREW	GRIST MILL	105	1500	WATER	25	2	500	8200	10000	1800	
0012	B-1	MCPHERSON JOHN	SAW MILL	251/251-S	2000	STEAM	25	9	3000	3000	8150	5150	
0012	B-1	ROOT AUGUSTUS	SAW MILL	251/251-S	1000	STEAM	25	6	1440	875	3705	2830	
0012	B-2	ROBERTSON JAMES	SHINGLE FACTORY	251-S	1000	W/S	25	10	2000	2400	3840	1440	
0012	B-2	ROBERTSON JAMES	SAW MILL	251	800	STEAM	25	4	1200	10000	18000	8000	
0012	C-2	WILLCOX EDWARD L	SAW MILL	251	1000	STEAM	25	1	400	400	1024	624	
					134700						243685	380380	140995

## NORFOLK COUNTY: FIRMS EMPLOYING 2+ FEMALES IN 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	FEMALE	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	CARNOCHAN MISS	MILLINERY/DRESSM	249-M	100	.	.	6	200	1600	2000	400
0012	D	NORRIS JOHN	BAKERY/CONFECTION	107	1500	.	.	5	800	2820	6000	3180
0011	B-1	ROSE MARIA	MILLINERY SHOP	249-M	400	.	.	3	100	500	800	300
0011	D-2	BROOK R & SON	WOOLEN FACTORY	182	3000	WATER	15	3	1500	3000	6000	3000
0012	D	HENDRY OSCAR	MILLINERY/DRESSM	249-M	35	.	.	3	400	1400	2000	600
0012	D	DYER MISS JANE	DRESSMAKING	244	30	.	.	3	200	400	700	300
0012	D	CHURCH MRS ISA	DRESSMAKING/MILLI	244	40	.	.	3	200	500	800	300
0012	A-2	GILENO CHARLES	BLACKSMITH FORGE	329	500	.	.	2	400	200	676	476
0012	A-2	SMITH L ?	BAKER SHOP	107	.	.	.	2	100	468	585	117
0012	A-2	HULLARD JOHN	TAILOR SHOP	243	50	.	.	2	800	2750	3370	620
0012	C-4	COULVER LODER	CHEESE FACTORY	104	1000	.	.	2	285	3213	4016	803
0012	D	HODGSON ROBERT	TAILOR	242	1500	.	.	2	300	1200	2000	800
0012	D	O'CARR MRS E	CHILDRENS CLOTHI	245	75	.	.	2	200	100	300	200
					8230			15	5485	18151	29247	11096



CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	B-1	ABBOTT DANIEL	BRICK YARD	351-B	500	HORSE	1	4	550	100	1200	1100
0011	B-2	ADAMS W H	SAW MILL	251	500	WATER	25	2	340	600	1000	400
0012	D	ADAMS JOSEPH	BLACKSMITH FORGE	896	300		.	2	750	500	2000	1500
0011	B-2	ADES ALFRED	BLACKSMITH SHOP	896	100		.	1	175	25	300	275
0011	D-2	ADES ALFRED	GRIST MILL	105	6000	WATER	20	1	330	15000	16500	1500
0011	D-2	ADES ALFRED	SAW MILL	251	1000	WATER	10	2	300	500	800	300
0011	D-2	ADES ALFRED	CIDER MILL	109-C	1000	WATER	5	4	300	500	960	460
0011	D-3	ALDERSON WM M	SHINGLE MILL	251-S	1000	STEAM	10	5	500	500	1000	500
0012	B-4	ALMAS M A	COOPER SHOP	259-C	80		.	2	200	50	350	300
0012	D	ANDERSON JAMES	BOOT/SHOE SHOP	174	2000		.	4	1200	1200	3000	1800
0011	D-3	ANDERSON ARTHUR	WAGON SHOP	329	400		.	3	1100	325	2000	1675
0011	D-1	ANDERSON JAMES E	BLACKSMITH SHOP	896	100		.	1	60	60	200	140
0011	D-2	ANDERSON JOHN B	SAW MILL	251	600	WATER	15	3	200	350	600	250
0011	D-2	ANDERSON JOHN B	SHINGLE FACTORY	251-S	400	WATER	15	1	50	100	200	100
0012	D	ANDREWS CAROLINE	DRESSMAKER	244	.		.	1	200	200	400	200
0011	D-1	ANSLEY OZIAS	TIN SHOP	304-T	1000		.	1	500	600	2000	1400
0012	B-2	AREY HENRY	BLACKSMITH FORGE	896	300		.	1	400	150	1080	930
0012	D	AUSTIN JOHN S	BLACKSMITH FORGE	896	50		.	1	400	100	600	500
0012	D	AUSTIN & SCOTT	CARRIAGE FACTORY	329	6000	STEAM	12	25	6000	3950	11500	7550
0012	C-3	AUSTIN EDWARD	BLACKSMITH/CARRI	329	700		.	6	1600	90	6000	5910
0011	B-1	BACKHOUSE JOHN H	GRIST MILL	105	2000	WATER	.	2	500	5000	6000	1000
0012	C-4	BACON G F ?	CHEESE FACTORY	104	1200		.	3	300	5000	6250	1250
0011	C-3	BACON ROBERT T	JOINER SHOP	259	50		.	1	125	40	200	160
0011	B-1	BAKER JOHN	BLACKSMITH/CARRI	329	400		.	2	320	185	1200	1015
0012	D	BALBRICK R A	BOOT/SHOE STORE	174	100		.	4	1040	1200	4000	2800
0011	D-2	BALCH SIMEON	CIDER MILL	109-C	300	WATER	8	2	100	300	600	300
0011	C-3	BALDRIDGE HIRAM	BRICK KILN	351-B	300	HORSE	2	5	175	100	720	620
0012	C-2	BARBER JOHN	GRIST MILL	105	5500	WATER	40	1	300	4300	.	.
0012	C-4	BARBER JOHN L	CABINETMAKER	261	1500	STEAM	6	3	700	1000	2000	1000
0012	B-2	BARTHOLOMEW HENRY	SAW MILL	251/251-S	2000	STEAM	30	6	2000	6000	9700	3700
0012	D	BATTERSBY GEORGE	PORK CURING	101-P	500		.	3	130	600	1000	400
0011	B-1	BECKER ISAAC	FOUNDRY	311	100	STEAM	15	3	400	60	600	540
0011	A-2	BECKER WILLIAM	BLACKSMITH SHOP	896	100		.	1	250	40	365	325
0011	A-1	BECKETT SAMUEL	TANNERY	172	800	WATER	8	1	200	800	1200	400
0012	B-1	BECKWITH SETON	CHEESE FACTORY	104	1000		.	5	500	5000	6000	1000
0012	C-1	BEEMER WILLIAM	COOPER SHOP	259-C	100		.	5	1000	150	1800	1650
0011	A-2	BELL IRA	BLACKSMITH FORGE	896	200		.	1	400	40	500	460
0012	A-2	BILGER	VINEGAR	103	40		.	1	150	100	252	152
0011	D-3	BINT LEWIS	LIME KILN	358-L	50		.	2	300	165	500	335
0011	C-3	BLOOMFIELD JOHN	COOPER SHOP	259-C	80		.	1	125	50	200	150
0012	B-4	BOWEN JASON	SHINGLE FACTORY	251-S	300	WATER	8	2	60	40	245	205
0012	C-3	BOWLEY & CO	GRIST MILL	105	6000	WATER	20	1	360	20000	22165	2165
0012	C-2	BOWMAN FRANKLIN	BLACKSMITH FORGE	896	500		.	1	240	200	800	600
0011	C-2	BRANDOW ABRAHAM	BLACKSMITH	896	265		.	1	300	40	600	560
0011	D-2	BROOK R & SON	WOOLEN FACTORY	182	3000	WATER	15	7	1500	3000	6000	3000
0012	D	BROWN MATHEW	SADDLE/HARNESS S	179-S	1000		.	2	1860	4500	8000	3500
0011	C-1	BROWN THOMAS	BLACKSMITH SHOP	896	120		.	2	100	60	600	540
0011	D-1	BUGNER MILLER ?	CABINET SHOP	261	50		.	1	300	40	400	360
0011	A-2	BUNDY GEORGE	SHOEMAKING	174	120		.	1	200	200	300	100
0011	B-1	BURCH TITUS	BOOT/SHOE SHOP	174	50		.	1	350	100	400	300
0012	B-4	BURNHAM AUGUSTUS	SHINGLE FACTORY	251-S	1000	STEAM	10	4	432	250	1250	1000

NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEBEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	C-1	BUSLING DAVID	BLACKSMITH SHOP	896	100			3	800	60	1000	940
0011	B-3	BUTLER PATRICK &	SHINGLE FACTORY	251-S	1500	WATER	15	3	1500	2100	6000	3900
0012	C-3	BYARD ROSS	SHOE SHOP	174	50			1	175	100	300	200
0012	C-1	CABLE JOHN	BLACKSMITH SHOP	896	115			2	600	80	700	620
0011	D-1	CAILEY WILLIAM	SHOE SHOP	174	70			3	1000	900	2000	1100
0012	D	CARNOCHAN MISS	MILLINERY/DRESSM	249-M	100			6	200	1600	2000	400
0011	C-3	CARROW JOHN	COOPER SHOP	259-C	300			3	600	300	1503	1200
0012	D	CARTER HENRY	BOOT/SHOE SHOP	174	400			4	1400	1400	3500	2100
0011	B-3	CATTLE G & E	SHINGLE FACTORY	251-S	800	WATER	15	2	300	260	1092	832
0012	D	CHADWICK SAMUEL	TIN SHOP	304-T	1000			3	650	500	1335	835
0012	C-1	CHAMBERS LEONARD	SHINGLE FACTORY	251-S	1000	STEAM	15	2	600	500	2000	1500
0012	C-1	CHAMBOIS ISAAC	SAW MILL	251	2000	STEAM	18	2	300	800	1600	800
0012	C-1	CHART HENRY	COOPER SHOP	259-C	100			2	1000	350	1500	1150
0012	C-1	CHIPMAN B L	PRINTING EST	289	700			3	600	300	1200	900
0012	C-4	CHRISTIES EDMUND	CARRIAGE PAINTER	329	500			3	600	800	2200	1400
0012	D	CHURCH MRS ISA	DRESSMAKER/MILLI	244/249-M	40			3	200	500	800	300
0012	C-4	CHURCH JAMES Y	HARNESMAKER	179-S	800			2	400	600	1000	400
0012	A-2	CHURCH JOSEPH	CABINET SHOP	261	500			2	250	60	400	340
0012	B-2	CHURCH OSCAR	CHEESE FACTORY	104	500			5	411	1720	2640	920
0012	C-4	CLARK T W/DUNCOMB	GRIST/SAW MILL	105/251	16000	WATER	100	12	4000	64000	84000	20000
0012	A-1	CLOUSE JOHN L	CHAIR FACTORY	261	20			1	150	30	192	162
0012	D	COATES THOMAS	CARRIAGE FCY/REP	329	350			1	600	350	1500	1150
0012	B-3	COATS GARY	WAGON SHOP	329	300			1	90	140	240	100
0012	B-2	COLE EDWARD	BLACKSMITH FORGE	896	50			1	240	16	375	359
0011	B-3	CONSER RICHARD	SHINGLE MANUFACT	251-S	2000	STEAM	12	12	4000	3600	10000	6400
0012	D	COOK A & C M	TIN SHOP	304-T	750			2	500	800	1560	760
0012	C-4	COOK MARTIN	CARPENTER/CABINE	421-C/261	200	HORSE	1	3	285	40	4016	803
0012	A-1	COULVER LODER	CHEESE FACTORY	104	1000			3	700	3213	5600	2100
0012	A-1	COWAN JAMES	SAW MILL	251	3000	WATER	12	3	350	150	1000	850
0011	B-2	CRISTMAS GEORGE	WAGONMAKER	329	300			1	800	250	2000	1750
0011	B-1	CROSBY CHARLES	CARRIAGE/WAGON S	329	1000			3	120	60	220	160
0012	A-1	CROSSET ISABELLE	SEAMSTRESS SHOP	243	300			1	380	200	1270	1070
0012	A-2	CROZIER JAMES	BLACKSMITH FORGE	329	300			2	100	150	300	150
0011	D-2	CRUIKSHANKS GEORG	BROOM FACTORY	399-B	50			1	365	80	500	420
0012	C-3	CULVER OLIVER	BLACKSMITH SHOP	896	200			1	100	450	150	600
0012	C-3	CULVER TIMOTHY	WEAVING FACTORY	182-W	35			1	300	50	350	300
0012	D	CURTISS JEREMIA	BLACKSMITH FORGE	896	20			1	200	150	500	350
0012	B-1	DALLY GEORGE	COOPER SHOP	259-C	500			0	200	40	310	270
0011	A-1	DAVIS GEORGE	JOINER SHOP	254	150	HORSE	1	2	200	40	500	350
0012	C-4	DEAN ADAM	BLACKSMITH/WAGON	329	800			2	800	800	1800	1000
0011	D-2	DEAN JAMES	TANNERY	172	1600	WATER	14	3	700	1000	2000	1000
0011	B-1	DEDRICK ABRAHAM	TIN SHOP	304-T	550			1	400	1000	1600	600
0012	A-2	DEWITT JONATHAN	PUMP FACTORY	315-P	125			2	600	335	1762	1427
0011	B-2	DIBBLE JAMES H	WOOLEN MILL	182	1200	WATER	10	2	275	3000	5000	2000
0011	C-3	DISBROW IRA	COOPER SHOP	259-C	150			1	250	66	375	309
0011	D-2	DOAN E ?	TANNERY	172	400			1	200	250	550	300
0012	B-1	DOANS MATHEW	SAW MILL	251	2000	STEAM	16	6	1800	2800	4600	1800
0011	C-3	DOWSWELL JOHN	CARRIAGE SHOP	329	300			2	650	1060	1850	790
0012	A-1	DOYLE J W	SHINGLE FACTORY	251-S	1500	STEAM	16	5	900	900	1800	900
0012	D	DRAPER GEORGE	BLACKSMITH FORGE	896	100			1	400	100	600	500
0012	C-1	DUNCOMB ALEXANDER	SAW MILL	251	2700	WATER	10	4	500	600	1200	600

NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

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0012	D	DUNKIN JOHN	CARRIAGE FACTORY	329	2000			10	3450	2100	6100	4000
0012	D	DURWARD ALEX	CLOTHIER	242	3000			6	2153	4000	8000	4000
0012	D	DYER MISS JANE	DRESSMAKING	244	30			3	200	400	700	300
0012	B-1	EDGEWORTH THOMAS	SAW MILL	251/251-S	1000	STEAM	15	9	1000	1500	3000	1500
0011	B-1	ELLIS D J	TIN SHOP	304-T	500			2	600	600	1500	900
0011	B-3	EVINS JANE	SHINGLE MACHINE	251-S	200	WATER	6	1	25	100	340	300
0011	D-1	FALMSBY LEONARD	HARNES SHOP	179-S	300			2	200	180	450	270
0011	B-1	FERO JOHN	BLACKSMITH FORGE	896	60			1	400	100	600	500
0011	A-2	FICK WILLIAM	BLACKSMITH FORGE	896	100			1	150	24	500	476
0012	B-2	FIELDS JAMES	SHINGLE FACTORY	251-S	1200	STEAM	16	5	1100	900	3600	2700
0012	D	FORD N C & CO	FLOUR/GRIST MILL	105	10000	WATER	30	4	1200	20000	25000	5000
0012	D	FORD N C & CO	DISTILLERY	109-D	5000	WATER	10	4	2000	9000	25000	16000
0011	A-1	FORSYTH THOMAS	SAW MILL	251	500	WATER	12	3	312	919	1938	1019
0011	A-1	FRANCISCO WILLIAM	SAW MILL	251	500	WATER	10	2	300	200	500	300
0011	B-1	FRANKLIN HARVEY	CHEESE FACTORY	104	600			1	250	3200	4000	800
0011	C-3	FREELAND HARTMAN	COOPER SHOP	259-C	25			1	125	60	250	190
0012	B-2	FREEMAN ALBERT	SHINGLE FACTORY	251-S	1300	STEAM	16	6	1800	450	6000	5550
0011	B-2	FRY JAMES	SHOEMAKER SHOP	174	100			2	700	1000	2000	1000
0012	D	GALLAGHER PATRICK	BOOT/SHOE SHOP	174	100			3	750	1600	850	850
0012	D	GARDINER SAMUEL	MARBLE/STONE WOR	353	1000	HORSE	3	3	1000	2000	6000	4000
0012	B-3	GARNER C F	CARPENTER/JOINER	254	200			1	90	20	160	140
0011	A-1	GARNHAM SHERIFF	SAW MILL	251	1200	STEAM	14	7	840	4000	8000	4000
0011	C-2	GRIFFIN GEORGE	WOOL CARDING	189-W	1000	WATER	4	1	200	480	880	400
0012	D	GIBBONS WILLIAM	CHANDLERY/ASHERY	376/378-P	1000			2	500	400	1100	700
0012	B-3	GIBSON WM & D	SAW MILL	251	5000	STEAM	50	18	3000	6000	14000	8000
0012	A-2	GILENO CHARLES	BLACKSMITH FORGE	329	500			14	400	200	676	476
0011	D-1	GILLES THOMAS	WAGON SHOP	329	2000	HORSE	1	4	1250	609	2671	2062
0011	B-1	GORDON THOMAS	BLACKSMITH FORGE	896	150			2	500	100	900	800
0012	B-1	GRAY JOHN	BLACKSMITH	329	200			1	400	155	2000	1845
0012	A-1	GRAYDON THOMAS &	SHINGLE FACTORY	251-S	3500	STEAM	16	5	1200	800	3000	2200
0012	C-4	GREEN J W & N	FOUNDRY/MACHINE	311/315	12000	STEAM	15	32	7000	3000	20000	17000
0012	A-2	GRIFFIN JACOB	SAW MILL	251	400	WATER	18	1	300	2400	2800	400
0012	A-2	GRIFFIN JACOB	LIME KILN	358-L				2	135	45	515	470
0011	A-1	GRIFFITH WILLIAM	GRIST MILL	105	1500	WATER	15	2	500	7500	8250	750
0011	C-1	HACKETT J & E	CARRIAGEMAKER	329	400			5	700	1000	3000	2000
0012	B-2	HAGERMAN JAMES	BLACKSMITH FORGE	896	200			1	375	200	1200	1000
0012	C-4	HAGUE THOMAS	BOOT/SHOEMAKER	174	500			3	600	800	1872	1072
0011	C-3	HALIDAY DAVID	BLACKSMITH SHOP	896	150			1	300	120	600	480
0011	C-3	HALIDAY ROBERT	BLACKSMITH SHOP	896	250			1	140	70	300	230
0011	B-2	HALL & DAVIS	SAW MILL	251	1200	WATER	18	3	372	625	1750	1125
0011	D-1	HALL DENNIS	POT ASHERY	378-P	100			1	200	160	510	350
0011	B-3	HAMILTON R ?	SAW MILL	251	2000	WATER	10	2	300	400	1400	1000
0012	A-1	HAMINCK BERNARD	BLACKSMITH FORGE	896	500			2	120	30	1000	970
0012	A-2	HARMAN FREDERICK	WEAVING LOOM	182-W	13			1	250	600	1000	400
0012	D	HARRIS W & J	BOOT/SHOE SHOP	174	600			4	936	1040	2500	1460
0011	D-1	HARRIS JOSEPH	SHOE SHOP	174	50			1	300	300	650	350
0012	C-1	HARRIS WILLIAM	CHEESE FACTORY	104	1500			2	200	900	1280	380
0012	B-3	HART HAMLET	COLLAR SHOP	179-S	225			1	90	150	400	250
0012	C-3	HAZELTON DUNHAM ?	CHEESE FACTORY	104	800			1	200	800	1000	200
0011	C-2	HELTH JAMES	GRIST MILL	105	1050	WATER	24	2	300	1160	1148	-12
0011	B-3	HENDERSON ARCHIBA	SAW MILL	251	2000	WATER	30	4	832	2250	4597	2347



## NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

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0011	B-3	HENDERSON ARCHIBA	SHINGLE FACTORY	251-S	1500	WATER	16	3	600	700	3000	2300
0011	D-2	HENDERSON ARTHUR	SHOE SHOP	174	50			1	120	150	300	150
0012	B-4	HENDERSON JOHN	SAW MILL	251	400	WATER	8	1	150	150	300	150
0012	D	HENDRY OSCAR	MILLINERY/DRESSM	249-M	35			3	400	1400	2000	600
0011	B-2	HENRY TERRY	BLACKSMITH SHOP	896	150			1	375	40	800	760
0012	A-1	HERRON J C H	BOOT/SHOE SHOP	174	200			2	275	125	400	275
0012	C-4	HERRON MORRIS O	BLACKSMITH/WAGON	329	300			4	700	1800	2800	1000
0011	C-2	HEWITT GEORGE	HARNESMAKER	179-S	700	WATER	12	2	600	500	1350	850
0011	A-1	HILL JEREMIAH	SAW MILL	251/251-S	450			2	300	400	1090	690
0012	A-2	HILLIKER HENRY	WAGONMAKER	329	600	STEAM	12	2	400	48	1100	1052
0012	B-4	HINKS JAMES	SAW MILL	251	1500			3	300	1800	4200	2400
0012	D	HODGSON ROBERT	TAILOR	242	125	HORSE	1	2	600	1200	2000	800
0011	D-1	HOFFMAN LEWIS	CABINET SHOP	261	1620	STEAM	20	14	2300	1626	4000	1900
0011	C-1	HOVER GEORGE	BLACKSMITH/SAW M	251	6000	STEAM	40	18	5000	12000	18250	2374
0012	B-2	HULL JAMES	SAW MILL	251/251-S	50			3	800	2750	3370	620
0012	A-2	HULLARD JOHN	TAILOR SHOP	243	100			2	620	112	1000	888
0011	D-1	HUSTED GEORGE	BLACKSMITH SHOP	896	6000	STEAM	15	21	10000	6000	20000	14000
0012	D	JACKSON GEORGE	FURNITURE/SASHES	261/254	100			1	180	80	360	280
0011	D-1	JARVIS HIRAM	BLACKSMITH SHOP	896	600	WATER	15	3	990	1250	4000	2750
0011	B-3	JENKINS THOMAS	SHINGLE FACTORY	251-S	500			1	26	1200	1530	330
0011	C-3	JOINT STOCK CO	CHEESE FACTORY	104	100			1	350	500	800	300
0011	B-1	JOSEPH OAKS	WAGON SHOP	329	1000			5	1000	500	2000	1500
0012	D	KELLY W P	PRINTING OFFICE	289	5000	STEAM	8	4	1000	1540	4900	3360
0012	D	KENT EDWIN P	BREWERY/MALT HOU	109-B/108-M	600	HORSE	1	2	600	700	1600	900
0011	C-2	KERD ARCHIBALD	CABINET FACTORY	329	800			2	500	1200	2000	800
0012	C-4	KIMBEL JOHN	BLACKSMITH/BUGGI	259-C	100			1	120	279	600	321
0012	B-1	KITCHEN AARON	COOPER SHOP	896	150			2	300	250	1500	1250
0012	C-1	KITCHEN DAVID	BLACKSMITH	174	30			1	75	160	85	
0011	D-2	KNIFFEN HENRY	SHOE SHOP	658	50			1	300	20	355	335
0011	D-1	LADD MICHAEL	WAGON SHOP	105	1500	WATER	25	2	500	8200	10000	1800
0011	D-2	LANG ANDREW	GRIST MILL	259-C	50			1	300	50	450	400
0012	B-4	LAPIER PETER	COOPER SHOP	896	400			1	240	100	600	500
0012	B-2	LAWRENCE WILLIAM	BLACKSMITH FORGE	896	7000	STEAM	10	8	3000	10000	18000	8000
0011	D-1	LAWSON PETER	TANNERY	172	1000	STEAM	20	2	60	130	250	120
0011	A-2	LAYCOCK JOHN	SAW/SHINGLE MILL	251/251-S	100	STEAM	1	1	200	60	400	340
0011	B-1	LAYMOND	COOPER SHOP	259-C	50	HORSE		2	400	100	600	300
0012	D	LEA GEORGE	CARPENTER SHOP	254	65			1	300	20	500	480
0011	C-2	LEE JAMES	BLACKSMITH	896	200			2	350	100	300	200
0012	C-3	LEMON JAMES	BLACKSMITH SHOP	896	6000	WATER	24	3	500	1300	2100	800
0011	D-2	LEMON WILLIAM	BLACKSMITH SHOP	896	2000	WATER	50	6	1500	2000	4000	2000
0012	B-1	LESTER SOLOMON	GRIST MILL	105	6000	STEAM	40	25	7800	14000	33000	19000
0012	B-1	LESTER WILLIAM	SAW MILL	251	20			1	150	300	500	200
0012	B-2	LEWIS LEVI	SAW MILL	251/251-S	2000	WATER	20	4	528	1200	2200	1000
0012	D	LONG MISS A E	DRESSMAKING	244	1000			4	800	1800	4375	2575
0011	D-3	LONG ROBERT	SAW MILL	251	2000			11	2000	1400	3500	2100
0012	C-4	LUNDY S & E H	HARNESMAKER/SAD	179-S/179-T	50			1	400	50	560	510
0012	C-1	LUTES WILLIAM	CARRIAGE SHOP	329	100			4	1200	1160	2464	1304
0012	C-1	LYN JOSEPH	WAGON SHOP	329	500	STEAM	11	6	1800	1348	4368	3020
0012	A-1	MABER BENJAMIN	SAW/SHINGLE MILL	251/251-S	500			1	240	300	600	300
0012	B-1	MACSHONE ARTHUR	SHINGLE MILL	251-S								
0012	B-3	MAGER CHARLES	HARNES SHOP	179-S								

NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

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0011	C-2	MANNHOSS L M	TIN SHOP	304-T	1200			3	1000	3000	5000	2000
0012	A-2	MANTLE GEORGE	WEAVING LOOM	182-W	14			1	250	600	1000	400
0011	D-1	MARLOTT ABRAM	POTTERY	351-P	600	HORSE	1	3	1200	125	2000	1875
0011	B-3	MARSHALL EDMUND	WAGON SHOP	329	100			2	95	40	180	140
0012	A-2	MARSHALL HARVEY	BLACKSMITH FORGE	896	600			1	150	100	300	200
0011	A-1	MARTIN EPHRAIM	TANNERY	172/174	300	HORSE	1	2	600	200	1000	800
0012	B-3	MARTIN JOHN	SHOE SHOP	174	150			1	400	400	800	400
0012	C-3	MASECAR HORACE	SAW MILL	251	50	WATER	8	1	60	125	250	125
0011	B-1	MASON JOHN	CARRIAGE/WAGON S	329	300			2	600	220	1000	780
0011	C-3	MASSECAR NICHOLAS	GRIST MILL	105	4000	WATER	16	2	480	16500	17900	1400
0012	D	MASTERTON WILLIAM	BLACKSMITH FORGE	896	140			2	600	170	800	630
0012	D	MATHER ELISHA	MERCHANT TAILOR	242	400			2	750	1560	2500	940
0011	D-3	MATTHEWS GEORGE	THRASHING/REPAIR	311	1600	HORSE		4	1600	850	2500	1650
0011	B-3	MCBURNIE	SAW MILL	251	1500	WATER	20	3	1000	2500	4600	2100
0011	B-2	MCBURNIE & MCCALL	SAW MILL	251	10000	STEAM	30	18	3000	4000	10000	6000
0011	C-1	MCCALL A & T	SAW MILL	251	20000	STEAM	40	28	6000	6000	15000	9000
0011	C-1	MCCALL FRANK	SHINGLE MILL	251-S	1000	STEAM	20	6	800	1000	4000	3000
0011	B-3	MCCALL WILLIAM	SAW MILL	251	1800	WATER	20	14	3000	3000	8000	5000
0011	C-1	MCCUTHEN	SHINGLE FACTORY	251-S	1500	STEAM	12	2	40	30	80	50
0011	A-2	MCDERMIND JAMES	SLEIGH/HARROW MF	329/311	55			1	50	40	124	84
0012	D	MCDERMIND EDWARD	PHOTOGRAPH GALLE	893	1000			1	450	120	1000	880
0012	D	MCDOWELL JAMES M	FANNING MILL FCY	311	1000	STEAM	12	1	400	364	2200	1836
0012	C-3	MC GREGER C	SHOE SHOP	174	20			1	250	200	450	250
0012	B-1	MCPHERSON JOHN	SAW MILL	251/251-S	2000	STEAM	25	9	3000	3000	8150	5150
0012	B-1	MCQUEEN ALEXANDER	SADDLER/HARNESSM	179-S	200			1	300	500	1080	580
0012	A-2	MEREDITH HENRY	STUMP MACHINE MF	311	200	STEAM	5	1	250	460	1200	740
0012	A-2	MERO JOHN	WAGONMAKER	329	140			1	400	93	600	507
0012	A-1	MESTON WILLIAM	SAW MILL	251	1500	WATER	20	4	300	900	1620	720
0011	B-3	MILLAN RICHARD	BLACKSMITH SHOP	896	100			1	100	21	200	179
0012	D	MILLER WILLIAM	BAKERY	107	450			2	672	2832	4770	1938
0012	A-1	MILLS JOHN W	HOOP FACTORY	251				2	240	30	450	420
0012	D	MISENER & KENDALL	CABINETS/UNDERTA	261/258	2575	STEAM	15	8	2000	645	3300	2655
0011	A-2	MISENER ANDREW	GRIST MILL	105	2500	WATER	20	1	250	9000	9750	750
0011	D-3	MISNER JOSEPH	CHAIR FACTORY	261	100			1	50	16	75	59
0011	B-2	MITCHENER AMOS	SHOEMAKER SHOP	174	200			2	500	300	800	500
0011	B-2	MITCHENER JOSEPH	SAW MILL	251	900	WATER	30	3	500	1200	2000	800
0011	A-1	MOOR WILLIAM	SHINGLE MILL	251-S	200	WATER	10	2	270	630	1080	450
0012	D	MOORE ROBERT	TIN SHOP	304-T	1000			2	650	1000	1600	600
0011	A-1	MOSHEN JOHN	SAW MILL	251	600	STEAM	12	3	360	450	950	500
0011	D-1	MUDFORD CHARLES	TAILOR SHOP	242	50			2	400	200	600	400
0012	B-1	MUMHA SAMUEL ?	SHINGLE MILL	251-S	1000	STEAM	16	7	1000	6680	8680	2000
0012	D	MURRAY ALEXAND	BLACKSMITH FORGE	896	200			1	400	100	700	600
0012	C-1	MURRY JOHN	WAGONS/BLACKSMIT	329/311	100			2	400	120	600	480
0011	B-2	MYERS JOHN	SAW MILL	251	1000	WATER	20	1	350	600	1600	1000
0012	D	NEWELL PETER P	HARNESS SHOP	179-S	50			3	900	1000	2000	1000
0011	C-2	NICHOLSON J	GRIST MILL	105	8800	WATER	20	2	600	22490	26490	4000
0012	B-4	NORMANS DANIEL	SAW MILL	251	1000	STEAM	20	5	500	900	2000	1100
0012	D	NORRIS JOHN	BAKERY/CONFECTIO	107/108-C	1500			9	800	2820	6000	3180
0012	C-3	NUSER BALTUS ?	BROOM FACTORY	399-B	60			2	80	90	190	100
0012	D	O'CARR MRS E	CHILDRENS CLOTHI	245	75			2	200	100	300	200
0012	A-2	O'NEILL FRANCIS	SHINGLE MILL	251-S	180	WATER	10	4	120	280	425	145

## NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	O'SULLIVAN JOHN	SHOE SHOP	174	.	.	.	1	400	400	1000	600
0011	B-1	OSBURN DAVID	BLACKSMITH FORGE	896	50	.	.	1	300	100	400	300
0012	A-1	OSTRANDER JOHN	GRIST MILL	105	5000	WATER	30	1	360	2500	3000	500
0012	A-1	OSTRANDER JOHN	SAW MILL	251	5000	WATER	30	3	1080	3200	7000	3800
0011	B-1	OVERPAUGH	TANNERY	172	120	WATER	.	1	200	250	500	250
0012	A-2	OWEN ANSEN	GRIST MILL	105	2000	WATER	35	1	250	8000	8250	250
0012	A-2	OWEN ANSEN	SAW MILL	251	2000	WATER	15	2	625	1200	2800	1600
0011	C-3	PARK JOHN	SAW MILL	251	500	WATER	12	2	180	150	400	250
0011	C-3	PARK JOHN	CLOTH FACTORY	182	1500	WATER	12	1	180	1500	3760	2260
0011	B-1	PATIENT GEORGE	BOOT/SHOE SHOP	174	500	.	.	3	800	1500	3000	1500
0011	A-1	PAYNE EPHRAIM	WAGON SHOP	329	150	STEAM	8	1	300	15	400	385
0012	C-1	PERNEY DAVID	SHINGLE FACTORY	251-S	500	STEAM	8	2	600	1000	2200	1200
0011	D-1	PETRE JOHN	TAILOR SHOP	242	100	.	.	2	500	150	700	550
0011	A-2	PIERCE THOMAS	CARPENTER SHOP	254/261	150	.	.	1	75	24	150	126
0011	A-2	PIERCE WARREN	CARPENTER SHOP	259	50	.	.	1	40	12	55	43
0012	D	POLLEY & MADDEN	MACHINES/POUGHM	311	5000	STEAM	8	7	2700	1540	4300	2760
0012	A-1	POTTER E A	SAW MILL	251/251-S	1500	STEAM	20	6	1400	3000	6500	3500
0011	C-2	POTTS & COLMAN	DISTILLERY	109-D	10000	STEAM	15	4	1200	6000	37200	31200
0011	C-2	POTTS & DAWSON	TANNERY	172	2000	STEAM	16	4	1000	3150	6962	3812
0011	C-3	POTTS J E	SAW MILL	251	6000	STEAM	40	30	8000	9000	26200	17200
0012	C-1	PROCTOR GEORGE B	PLANING/TURNING	315-P/261	500	STEAM	8	2	1320	300	1326	1026
0012	B-1	PUGSLEY JOSIAH	CABINET SHOP	261	100	.	.	1	450	106	800	694
0011	C-3	REID WILLIS R	BLACKSMITH SHOP	896	150	.	.	1	300	50	600	550
0012	A-2	RENT GEORGE	SHINGLE MILL	251-S	500	WATER	12	3	214	1300	1800	500
0012	A-2	RENT GEORGE	SAW MILL	251	1500	WATER	18	7	1100	24000	30000	6000
0011	B-2	RHORE WILLIAM	SHINGLE MILL	251-S	500	WATER	17	6	650	250	1000	750
0011	B-1	RICHARDSON RICHA	BLACKSMITH SHOP	896	400	.	.	3	550	210	900	690
0012	C-1	ROBERTS GEORGE	SAW MILL	251	500	STEAM	16	2	100	600	1200	600
0012	B-2	ROBERTSON JAMES	SHINGLE FACTORY	251-S	1000	W/S	25	10	2000	2400	3840	1440
0012	B-2	ROBERTSON JAMES	SAW MILL	251	800	STEAM	25	4	1200	10000	18000	8000
0012	A-1	ROBINS WILLIAM	SHOE SHOP	174	30	.	.	1	90	30	120	90
0012	C-2	ROBINSON HIRAM	POTASH FACTORY	378-P	500	.	.	1	250	150	1500	1350
0012	B-1	ROCK SOLOMON	SHOEMAKER	174	100	.	.	1	200	500	1000	500
0012	C-4	ROCK THOMAS	PLANING MILL	254	1200	STEAM	6	3	600	1200	2000	800
0012	B-4	ROMAN L H	BOOT/SHOE SHOP	174	100	.	.	5	1200	1800	3500	1700
0011	D-3	ROMDIR ROBERT ?	BLACKSMITH SHOP	896	40	.	.	1	200	40	400	360
0012	B-1	ROOT AUGUSTUS	SAW MILL	251/251-S	1000	STEAM	25	6	1440	875	3705	2830
0011	B-1	ROSE MARIA	MILLINERY SHOP	249-M	400	.	.	3	100	500	800	300
0011	D-1	RYERSE JOHN	SHOE SHOP	174	100	.	.	1	300	700	800	400
0011	A-1	SAFFORD MILO	SAW MILL	251	400	WATER	10	1	150	300	500	200
0012	D	SALTZBERRY PHILIP	BUILDER	421-C	100	.	.	2	500	200	1000	800
0012	A-2	SANDERSON JOHN	WAGON SHOP	329	500	.	.	1	200	50	600	550
0011	A-2	SAUCH ALFRED	BLACKSMITH FORGE	896	200	.	.	1	300	110	550	440
0012	A-2	SCHMIDT FREDERICK	SHOE SHOP	174	200	.	.	3	400	580	1040	460
0011	C-3	SCHUELL CHARLES	WAGON SHOP	329	40	.	.	1	125	50	200	150
0011	D-1	SCOTT GEORGE L	CIDER MILL	109-C	700	HORSE	1	2	350	960	2400	1440
0012	A-1	SHAYER ASA	SAW MILL	251	1000	STEAM	12	6	325	6000	9600	3600
0012	A-2	SHAYER WILLIAM	WEAVER LOOM	182-W	12	.	.	1	120	280	475	195
0011	C-2	SHAW JOHN	GRIST/LOUR MILL	105	5000	WATER	16	2	600	22000	29500	7500
0011	C-1	SHEARER DAVID	CHEESE FACTORY	104	500	.	.	2	300	1987	3000	1013
0012	C-3	SHEARER WILLIAM R	CHEESE FACTORY	104	1000	.	.	1	250	4262	4688	426



NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	B-2	SHERMAN LUIS B	BLACKSMITH SHOP	896	100			1	375	50	500	450
0011	B-3	SHONP CHRISTIAN ?	SAW MILL	251	600	WATER		8	80	250	450	200
0012	B-3	SILVERTHORN WILLI	BLACKSMITH/WAGON	329/896	1000			4	800	600	1600	1000
0011	D-1	SIMONS GEORGE	HARNESS SHOP	179-S	200			1	300	408	1000	592
0011	C-1	SMAGE A ?	CABINET SHOP	261	150	HORSE		2	200	80	500	420
0012	B-4	SMITH GEORGE	COOPER SHOP	259-C	10			1	200	80	500	420
0012	C-4	SMITH GEORGE	SAW/SHINGLE MILL	251/251-S	2000	WATER		2	156		1700	
0011	D-1	SMITH JOHN	BLACKSMITH SHOP	896	50				375	195	700	505
0011	D-2	SMITH JOHN T	CHEESE FACTORY	104	1800			3	600	4800	5600	800
0012	A-2	SMITH L ?	BAKER SHOP	107				2	100	468	585	117
0011	A-1	SMITH PHILIP	BLACKSMITH SHOP	896	150			1	360	200	600	400
0011	C-3	SMITH QUARTUS ?	SHOEMAKER SHOP	174	150			2	400	500	1200	700
0011	C-1	SMITH RICHARD	BLACKSMITH SHOP	896	120			2	100	60	600	540
0012	C-2	SMITH STAFFORD	BLACKSMITH	311	500			2	350	200	1800	1600
0011	B-1	SMITH WILLIAM	BOOT/SHOE SHOP	174	70			1	300	75	600	525
0012	C-3	SMITH WILLIAM	WAGON SHOP	329	200			1	650	150	1000	850
0011	D-3	SNIDER GIDEON	TANNERY	172	200	HORSE		1	182	400	700	300
0012	A-2	SNIVELPY OGDEN	CARRIAGE SHOP	658	30			1	25	10	50	40
0012	B-1	SNOW NICHOLAS	WAGON/CARRIAGE	329				3	720	400	1800	1400
0012	A-2	SOVEREIGN JACOB	GRIST MILL	105	4000	WATER		1	300	13255	16331	3076
0012	A-2	SOVEREIGN JACOB	WOOLEN MILL	182	2500	WATER		16	300	1912	2400	488
0011	D-1	STALKER WILLIAM	BLACKSMITH SHOP	896	500			3	1500	358	2458	2100
0012	D	STEINHOFF ANDREW	HARNESS SHOP	179-S	20			3	500	500	1300	800
0012	D	STEINHOFF HUGH	CARPENTER SHOP	421-C	750	STEAM		3	400	240	2800	2560
0011	A-2	STEPHENS WILLIAM	BLACKSMITH FORGE	896	100			1	225	25	325	300
0011	D-1	STEVENSON ELENOR	TAILOR SHOP	242	400			1	150	75	250	175
0011	C-3	STEWART NOAH	BLACKSMITH SHOP	896	100			1	200	50	300	250
0011	B-3	SULERAN JAMES	BLACKSMITH SHOP	896	100			2	428	172	800	628
0011	C-1	TART MARTIN	COOPER SHOP	259-C	100			3	300	200	1250	1050
0012	C-1	TAYLOR EDWARD	SHINGLE FACTORY	251-S	1200	STEAM		6	1600	800	4000	3200
0012	A-1	THIRSTON CATHARIN	WEAVER SHOP	182-W				1	144	150	300	150
0011	D-2	THOMPSON ANDREW	GRIST MILL	105	13000	WATER		2	400	30000	33000	3000
0011	D-2	THOMPSON ANDREW	SAW MILL	251	600	WATER		0	60	20000	32000	12000
0012	D	THOMSON WALTER	CARPENTER SHOP	259	100			2	600	250	1080	830
0012	D	THOROUGHGOOD RUBI	PRINTING OFFICE	289	1000			4	800	2000	3000	1000
0012	C-3	TOMS JOHN	GRIST MILL	105	4000	WATER		20	380	18000	20350	2350
0012	D	TOWNLEY THOMAS	MERCHANT TAILOR	242	100			2	315	1000	1500	500
0011	A-1	TRUMAN JAMES	SAW MILL	251	500	WATER		2	240	306	700	394
0012	D	TUNE JAMES	SODA WATER FACTO	109-S	300			1	200	200	500	300
0012	D	TUNE ROBERT	BAKERY	107	400			2	600	2000	3000	1000
0011	D-1	TURNER WILLIAM	BLACKSMITH SHOP	896	250			1	600	70	1000	930
0011	C-3	VAN BROCKLIN F	JOINER SHOP	259	50			1	175	60	250	190
0011	D-2	WADDLE ROBERT	BROOM FACTORY	399-B	100			3	450	500	1000	500
0012	D	WADE & BANSLAU	PHOTOGRAPH GALLE	893	400			2	1000	500	1560	1060
0012	D	WALKER JOHN J	GUN/LOCKSMITH	897-G/897-L	100			1	400	100	500	400
0011	D-3	WARD SAMUEL	LIME KILN	358-L	50			3	340	140	600	460
0012	A-2	WARD WM J	FOUNDRY	311	600	STEAM		5	100	200	450	250
0011	D-2	WATSON THOMAS	GRIST MILL	105	3000	WATER		30	400	14000	15500	1500
0012	B-1	WATTS HENRY	BLACKSMITH/JOBBI	896				1	300	250	700	450
0012	D	WELLS LYMAN	ARTIFICIAL TEETH	391	1500			2	1000	1000	5000	4000
0012	D	WESTON RICHARD	TANNERY	172	400	HORSE		1	400	400	1000	600

NORFOLK COUNTY: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0011	C-2	WHITE CALVIN	SAW MILL	251	400	WATER	15	1	200	305	820	515
0012	B-3	WHITE WM R	SHINGLE MILL	251-S	500	STEAM	.	4	1800	1500	4000	2500
0012	B-4	WHITEHEAD JAMES	COOPER SHOP	259-C	50	.	.	1	156	40	225	185
0012	A-2	WHITESIDE JAMES	SAW MILL	251	1500	WATER	30	4	1000	1600	3200	1600
0012	A-2	WHITESIDE JAMES	SHINGLE MILL	251-S	500	WATER	12	1	600	900	1800	900
0012	A-2	WHITESIDE JAMES	HARNES SHOP	179-S	150	.	.	2	600	1099	1625	526
0012	C-3	WHITING WILLIAM	BLACKSMITH SHOP	896	80	.	.	1	200	100	75	-25
0012	B-4	WHITSON J & BELL	TANNERY/CURRIER	172	3000	WATER	10	2	600	1900	3000	1100
0012	A-2	WILLCOX EDWARD L	CABINET SHOP	261	800	HORSE	1	2	600	180	2500	2320
0012	C-2	WILLCOX EDWARD L	SAW MILL	251	1000	STEAM	25	1	400	400	1024	624
0011	A-2	WILLIAMS FRANCIS	BROOM FACTORY	399-B	20	.	.	2	25	35	55	20
0012	A-1	WILLIAMS ISRAEL	PUMP FACTORY	315-P	100	.	.	2	250	32	400	368
0011	C-2	WILLIAMS JAMES	BOOTS/SHOES	174	500	.	.	3	800	370	1200	830
0011	C-2	WILLIAMS JAMES	TANNERY	172	2000	STEAM	15	5	1200	4250	8300	4050
0011	C-3	WILSON ABNER	GRIST MILL	105	4000	WATER	24	1	450	14000	15200	1200
0011	C-3	WILSON ABNER	SAW MILL	251	800	WATER	12	1	140	200	800	600
0012	A-2	WILSON ADALINE	MILLINER/DRESSMA	244/243	32	.	.	1	50	250	305	55
0012	B-3	WILSON ASA	BLACKSMITH FORGE	896	200	.	.	1	300	100	800	700
0011	D-1	WILSON GEORGE	PRINTING OFFICE	289	2000	.	.	5	1000	1000	2400	1400
0012	C-1	WILSON JAMES	SAW MILL	251	1200	STEAM	15	4	800	1000	3000	2000
0011	C-3	WILSON JAMES H	BLACKSMITH SHOP	896	150	.	.	1	300	250	600	350
0011	B-3	WILSON LEWIS B	BLACKSMITH SHOP	896	200	.	.	1	400	100	750	650
0011	A-2	WILSON THOMAS	WAGON MAKING	329	500	.	.	1	500	200	700	500
0011	B-2	WILSON WILLIAM	TANNERY	172	700	WATER	.	1	360	500	1000	500
0012	A-2	WINSLOW CLARK	CARPENTER SHOP	259	200	.	.	1	175	200	425	225
0012	B-4	WINTEMUTE JAMES ?	BLACKSMITH SHOP	896	60	.	.	1	200	200	500	300
0012	B-4	WOOD ROBERT	SAW MILL	251/251-S	1000	STEAM	30	8	2300	3000	6000	3000
0012	B-1	WRIGHT JAMES	SAW MILL	251/251-S	5000	WATER	60	12	3000	4000	10500	6500
0012	C-2	WYMER DAVID	SAW MILL	251	600	WATER	.	1	240	400	700	300
0012	C-2	WYMER JAMES	BLACKSMITH SHOP	896	200	.	.	1	250	500	1200	700
0012	C-1	YEATMAN WILLIAM	WAGON SHOP	329	400	.	.	2	600	160	1700	1540
0012	A-2	ZIMMER WILLIAM	WEAVER LOOM	182-W	12	.	.	1	100	139	475	336
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										431433	729861	603968
										2555	1187	270029
										=====	=====	=====

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0012	D	ADAMS W H	BLACKSMITH FORGE	896	300			2	750	500	2000	1500
0012	D	ANDERSON JAMES	BOOT/SHOE SHOP	174	2000			4	1200	1200	3000	1800
0012	D	ANDREWS CAROLINE	DRESSMAKER	244				1	200	200	400	200
0012	D	AUSTIN JOHN S	BLACKSMITH FORGE	896	50			1	400	100	600	500
0012	D	AUSTIN & SCOTT	CARRIAGE FACTORY	329	6000	STEAM	12	25	6000	3950	11500	7550
0012	D	BALBRICK R A	BOOT/SHOE STORE	174	100			4	1040	1200	4000	2800
0012	D	BATTERSBY GEORGE	BOOT/SHOE SHOP	174	500			3	130	600	1000	400
0012	D	BROWN MATHEW	PORK CURING	101-P	1000			7	1860	4500	8000	3500
0012	D	CARNOCHAN MISS	SADDLE/HARNESS S	179-S	100			6	200	1600	2000	400
0012	D	CARTER HENRY	MILLINERY/DRESSM	249-M	100			4	1400	1400	3500	2100
0012	D	CHADWICK SAMUEL	BOOT/SHOE SHOP	174	400			3	650	500	1335	835
0012	D	CHURCH MRS ISA	TIN SHOP	304-T	1000			3	200	500	800	300
0012	D	COATES THOMAS	DRESSMAKER/MILLI	244/249-M	40			1	600	350	1500	1150
0012	D	COOK A & C M	CARRIAGE FCY/REP	329	350			2	500	800	1560	760
0012	D	CURTISS JEREMIA	TIN SHOP	304-T	20			1	300	50	350	300
0012	D	DRAPER GEORGE	BLACKSMITH FORGE	896	100			1	400	100	600	500
0012	D	DUNKIN JOHN	BLACKSMITH FORGE	896	2000			10	3450	2100	6100	4000
0012	D	DURWARD ALEX	CARRIAGE FACTORY	329	3000			6	2153	4000	8000	4000
0012	D	DYER MISS JANE	CLOTHIER	242	30			3	200	400	700	300
0012	D	FORD N C & CO	DRESSMAKING	244	10000	WATER	30	4	1200	20000	25000	5000
0012	D	FORD N C & CO	FLOUR/GRIST MILL	105	5000	WATER	10	4	2000	9000	25000	16000
0012	D	GALLAGHER PATRICK	DISTILLERY	109-D	100			3	750	750	1600	850
0012	D	GARDINER SAMUEL	BOOT/SHOE SHOP	174	1000	HORSE	3	3	1000	2000	6000	4000
0012	D	GIBBONS WILLIAM	MARBLE/STONE WOR	353	1000			2	500	400	1100	700
0012	D	HARRIS W & J	CHANDLERY/ASHERY	376/378-P	1000			4	936	1040	2500	1460
0012	D	HENDRY OSCAR	BOOT/SHOE SHOP	174	600			3	400	1400	2000	600
0012	D	HODGSON ROBERT	MILLINERY/DRESSM	249-M	35			3	300	1200	2000	800
0012	D	JACKSON GEORGE	TAILOR	242	1500			21	10000	6000	20000	14000
0012	D	KELLY W P	FURNITURE/SASHES	261/254	6000	STEAM	15	5	1000	500	2000	1500
0012	D	KENT EDWIN P	PRINTING OFFICE	289	1000			4	1000	1540	4900	3360
0012	D	LEA GEORGE	BREWERY/MALT HOU	109-B/108-M	5000	STEAM	8	2	400	100	600	500
0012	D	LONG MISS A E	CARPENTER SHOP	254	50			1	150	300	500	200
0012	D	MASTERTON WILLIAM	DRESSMAKING	244	20			2	600	170	800	630
0012	D	MATHER ELISHA	BLACKSMITH FORGE	896	140			2	750	1560	2500	940
0012	D	MCDERMOND EDWARD	MERCHANT TAILOR	242	400			1	450	120	1000	880
0012	D	MCDOWELL JAMES M	PHOTOGRAPH GALLE	893	100			12	400	364	2200	1836
0012	D	MILLER WILLIAM	FANNING MILL FCY	311	1000	STEAM	12	2	672	2832	4770	1938
0012	D	MISENER & KENDALL	BAKERY	107	450			8	2000	645	3300	2655
0012	D	MOORE ROBERT	CABINETS/UNDERTA	261/258	2575	STEAM	15	2	650	1000	1600	600
0012	D	MURRAY ALEXAND	TIN SHOP	304-T	1000			2	400	100	700	600
0012	D	NEWELL PETER P	BLACKSMITH FORGE	896	50			3	900	1000	2000	1000
0012	D	NORRIS JOHN	HARNES SHOP	179-S	1500			9	800	2820	6000	3180
0012	D	O'CARR MRS E	BAKERY/CONFECTIO	107/108-C	75			2	200	100	300	200
0012	D	O'SULLIVAN JOHN	CHILDRENS CLOTHI	245				1	400	400	1000	600
0012	D	POLLEY & MADDEN	SHOE SHOP	174	5000	STEAM	8	7	2700	1540	4300	2760
0012	D	SALTZBERY PHILIP	MACHINES/PLOUGHM	311	100			2	500	200	1000	800
0012	D	STEINHOFF ANDREW	BUILDER	421-C	20			3	500	500	1300	800
0012	D	STEINHOFF HUGH	HARNES SHOP	179-S	750	STEAM	12	3	400	240	2800	2560
0012	D	THOMSON WALTER	CARPENTER SHOP	421-C	100			2	600	250	1080	830
0012	D	THOROUGHGOOD RUBI	CARPENTER SHOP	259	1000			4	800	2000	3000	1000
0012	D	TOWNLEY THOMAS	PRINTING OFFICE	289	100			2	315	1000	1500	500
0012	D	TUNE JAMES	MERCHANT TAILOR	242	300			1	200	200	500	300
0012	D	TUNE ROBERT	SODA WATER FACTO	109-S	400			2	600	2000	3000	1000
0012	D	WADE & BANSLAU	BAKERY	107	400			2	1000	500	1560	1060
0012	D	WALKER JOHN J	PHOTOGRAPH GALLE	893	100			1	400	100	500	400
0012	D	WELLS LYMAN	GUN/LOCKSMITH	897-G/897-L	1500			2	1000	1000	5000	4000
0012	D	WESTON RICHARD	ARTIFICIAL TEETH	391	400	HORSE	1	1	400	400	1000	600
			TANNERY	172								
					66705		126	212	58906	89321	202855	113534





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